

3140 Finley Road
Downers Grove, IL 60515
630.795.3200
Fax: 630.795.1130



US EPA RECORDS CENTER REGION 5



426660

April 30, 2004

Mr. Stanley F. Komperda
State Sites Unit
Remedial Project Management Section
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62702-4072

Clayton Project No. 65263.10

**RE: 0430555004 – DuPage County
Lisle/Lockformer
Superfund/Technical Reports
Response to Comments Received on April 16, 2004**

Dear Mr. Komperda:

Responses to Comments received on April 16, 2004 are presented in this letter. The Illinois EPA comments are provided in italics followed by Clayton Group Services, Inc.'s responses in bold:

1. *Page 1-2, 1st paragraph. The IEPA's main concern was the unknown extent of saturated mass waste unit in the northern portion of Areas 1 and 2, specifically along the western boundary of Area 2. This concern is adequately addressed in the submitted report.*

No response required.

2. *Page 2-2, Figure 2-3. The intent of Figure 2-3 is to show the thickness of the lower till layer that is protective of the lower sand and bedrock aquifers. The lower sand and bedrock aquifer monitoring plan will be, in part, based on the thickness of the lower till layer. It is stated in the report that the data points used to identify the contact between the lower till and the lower sand are provided in Figure 2-3. However, it appears that lower sand was not encountered at all locations depicted on Figure 2-3. For instance, the boring logs for CSB-1812, CSB-1813, and CSB-1829 show a lower till thickness of approximately 2 feet and the lower till thickness in these borings on Figure 2-3 is 15 feet, 6 feet, and 6 feet, respectively. Please identify locations at which the lower sand/ bedrock was*

encountered and provide a separate map that will show the top of the lower sand elevations.

Figure 2-3 illustrated the thickness of the lower till, which was determined by first developing the elevations of the upper and lower surfaces of the lower till at applicable points throughout the subject area and subtracting the two elevations. Figure 2-3 illustrated the points used to determine the upper surface, the lower surface, or both. However, some points identified only the upper surface and were not advanced to the depth of the lower surface. Soil borings CSB-1812, CSB-1813, and CSB-1829 are three such cases. Accordingly, these soil borings were not used to determine the lower surface.

Figure 1 of Attachment A illustrates the lower surface of the lower till and identifies only those points used to develop that surface. During the development of Figure 1, a review of the boring logs led to a re-evaluation of the lower surface of the lower till for soil borings CSB-1852 and MW-1107D. This re-evaluation was incorporated into Figure 1 and led to the revision of the lower till isopach map illustrated as Figure 2-3. The revised Figure 2-3 is included in Attachment A.

The lower sand/bedrock (and weathered bedrock) contact was encountered in borings CSB-126B, CSB-521B, MW-1100D, MW-1101D, MW-1102D, MW-1103D, MW-1104D, MW-1105D, MW-1106D, MW-1107D, MW-1108D, MW-1110D, MW-1111D, MW-1112D, MW-1114D, MW-1118, MW-1122, CSB-1202, CSB-1205, CSB-1206, CSB-1207, CSB-1208, CSB-1209, and CSB-1210.

3. *Page 2-2: For completeness, please provide soil and groundwater analytical results for samples collected during this investigation as an attachment to this report.*

Laboratory analytical reports for the soil and groundwater samples collected from CSB-1853, CSB-1854, CSB-1855, and MW-1122S are provided in Attachment B.

4. *Figure 3-4: It appears that the saturated mass waste unit in the undulation surrounding MW-500D is isolated from adjacent saturated mass waste unit. Please explain what happens with infiltration that drains towards this undulation. The water mass balance for the undulation would require that infiltration either percolates to the Silurian dolomite through the lower till or drains to the adjacent saturated mass waste region. However, in the latter case, the undulation is not isolated from the rest of the mass waste unit.*

In general, Lockformer agrees with the Illinois EPA's assessment of the groundwater that accumulates in the lower till depression in the vicinity of former monitoring well MW-500D. While it is fair to say the water balance involving this depression has not been specifically investigated, it is known that the groundwater that accumulates in the depression exhibits the following characteristics:

- Constituent concentrations significantly different from groundwater saturating other portions of the mass waste unit in close proximity to it.
- Elevated hydraulic head that appears to be inconsistent with the hydraulic gradient in the remainder of the mass waste aquifer.

These observations have led to the conclusion that precipitation infiltration/recharge that migrates to the lower till in the proximity of the depression migrates towards it and accumulates in the depression. Once the accumulation of groundwater in the depression reaches a certain elevation (this exact elevation is currently unknown), it is allowed to flow into and is in direct hydraulic communication with the remainder of the mass waste aquifer. Seasonally, as the hydrostatic level within the depression falls, it appears to become isolated from the remainder of the mass waste aquifer.

5. *Page 3-5, Figure 2-4. Based on distribution of the TCE adsorbed to the upper portion of the lower till layer, it appears that the historical preferential flow direction is due west of Area 2. As pointed out in the report, the groundwater mounding effect is observed in wells MW-1112S and MW-1123 and the source of this effect may be a leak from the water main or storm sewers. Currently, this mounding effect may actually impede contaminant transport to the west. In addition, Page 3-5 indicates the Bill Kay retention basin provides additional recharge to the mass waste sediments but provided no further information on the implications of this information. The long-term contaminant transport in Area 2 should be based on the historical flow pattern assuming that no mounding would be occurring in the future. The average gradient of 0.0028 measured in the rest of Area 2 should be used in contaminant transport calculations*

Lockformer agrees with much of the Illinois EPA's assessment. However, it is unclear to Lockformer why the average gradient of 0.0028 measured on the east side of the structural high in the mass waste unit should be applied to the west side of Area 2. The implication is that if a mound were not present on the Ogden Corporate Center property, the hydraulic gradient on the west side of Area 2 would increase. Lockformer agrees that, under certain hydraulic



Mr. Stanley F. Komperda
IEPA
Response to IEPA Comments

Clayton Project No. 65263.10
April 30, 2004
Page 4

circumstances, a groundwater mound would cause a lower hydraulic gradient to be measured. For instance, in a flow field where there is significant separation between upgradient and downgradient measurement points, and the groundwater mound occurs close to the downgradient measurement points, the overall hydraulic gradient observed would be underestimated. This is not the case for the hydraulic gradient measurements on the west side of Area 2. The hydraulic gradient measurements on the west side of Area 2 have been performed with the mound occurring in the middle of – and causing a dominant effect on – a restricted flow field. As a result, groundwater in upgradient locations of the mound in the mass waste unit aquifer (vicinity of MW-1117) is competing to flow to downgradient locations through the restriction caused by the structural high in the lower till in the vicinity of MW-1105D. This actually causes the hydraulic gradient upgradient of the groundwater mound to increase in order to provide the necessary discharge through the flow field. The net result is that the calculated hydraulic gradient for the west side of Area 2 is actually larger than it would be if the groundwater mound were not there. This assessment was evaluated using a numeric model developed recently for Areas 1 and 2 of the site to provide a design basis for the feasibility study.

To perform an analysis of the hydraulic gradient on the west side of Area 2, first recall that pages 3-5 and 3-6 of the report indicate the hydraulic gradient was calculated using the hydraulic gradient in monitoring well MW-1117 and the location of the first contour southwest of the structural high in the lower till. The hydraulic gradient measured utilizing this basis over the period of study from November 2002 through February 2004 ranged from 0.00085 to 0.002 and averaged 0.0016. The hydraulic gradient measured on July 7, 2003 on the west side of Area 2 was 0.0017 and is likely to be the most representative of the flow field during this period. The potentiometric surface map for this date appeared as Figure 3-7 in the report. The northern portion of this potentiometric surface map used to calculate the hydraulic gradients is presented as Figure 1 of Attachment C. A review of this figure indicates the hydraulic gradient on the west side of Area 2 was calculated along a line connecting MW-1117 to the 653.00 potentiometric contour line where it crossed the east side of the south Ogden Corporate Center building.

The groundwater numerical model created to provide a design basis for the feasibility study was used to evaluate the question of the recharge effect observed on the Ogden Corporate Center property. While it is outside the scope of this response letter to provide a detailed analysis and support for the numerical model, some of the construction details are provided below.

The model was developed using the United States Geological Survey's finite difference model MODFLOW utilizing the Environmental Simulations, Inc. preprocessor Groundwater Vistas. The model utilizes a uniform 10-foot grid spacing and the following site data as characteristics:

- Hydraulic conductivity in the mass waste unit 1.52×10^{-3} cm/sec.
- The structural contour surface of the lower till imported into the model from Figure 2-2 of the report.
- A no-flow boundary generally associated with the maximum extent of the mass waste unit water table as depicted in Figure 3-4 from the report (with the exception of the area in the vicinity of the MW-500D depression).
- A constant head boundary along the southwest to simulate the prevailing groundwater flow.
- Recharge was simulated across the model on an areal basis, along the no-flow boundary to simulate runoff across the lower till, and into the Bill Kay detention basin.
- Hydraulic recharge causes by the leaking storm sewer along the east side of the Ogden Corporate Center property.

Figure 2 of Attachment C depicts the groundwater potentiometric contours from the numeric model and the monitoring wells in the mass waste unit utilized as calibration targets. The July 7, 2003 static water levels were used as calibration targets. The contour lines from the July 7, 2003 potentiometric surface map have also been included on Figure 2 for comparison purposes. A total of 12 groundwater monitoring wells in the mass waste unit in Areas 1 and 2 were used as calibration targets. The calibration utilized for Figure 2 resulted in a residual standard deviation 0.09 and a residual sum of squares of 0.1 for these 12 targets.

A review of Figure 2 and a comparison to Figure 1 that previously calculated hydraulic gradient indicates the calibration is nearly exact. The contour line of the model crosses the Ogden Corporate Center building at an identical location, and the hydraulic head in MW-1117 is within 0.01 foot of that measured utilizing the calibrated numerical model. The hydraulic gradient is 0.0017.

Mr. Stanley F. Komperda
IEPA
Response to IEPA Comments

The numerical model was then used to simulate the exact same hydraulic site conditions with the only variation being the recharge mound on the Ogden Corporate Center was removed. Figure 3 of Attachment C demonstrates these results. The hydraulic gradient was calculated in the same way, from MW-1117 to the remnant of the potentiometric surface contour (from the July 7, 2003 potentiometric surface map). The calculated hydraulic gradient is 0.0015 verifying the hydraulic gradient would actually relax on the west side of Area 2 if the hydraulic mound on the Ogden Corporate Center were not there.

6. *Page 4-1 recommended that further investigation is merited because of the depression found in the upper surface of the lower till near CSB-1817. This should not be used to delay the development of proposed remedial options.*

On March 18, 2004, soil boring CSB-1817B was advanced adjacent to CSB-1817 to verify the saturated conditions observed at the contact of the mass waste unit/lower till unit in CSB-1817 and, if present, to collect a groundwater grab sample to evaluate potential VOC concentrations. Soil boring CSB-1817B was completed approximately 3 feet north of soil boring CSB-1817 (at the western limit of the ERH remediation area) using a track-mounted geoprobe capable of collecting discrete soil samples. The soil sampling was conducted under the direction of Clayton personnel as representatives of The Lockformer Company. Oversight was conducted by Parsons, Inc. as representatives of the Illinois EPA. The soil boring log for CSB-1817B is presented in Attachment D.

During the advancement of CSB-1817B, the mass waste unit/lower till unit contact was identified at 654.54 feet above mean seal level (55.2 feet below ground surface), approximately one foot below the elevation of the same contact identified during the advancement of CSB-1817. However, unlike the 3 feet of saturated mass waste unit identified at the contact during the advancement of CSB-1817, no saturated conditions were identified in the mass waste unit during the advancement of CSB-1817B.

Based on the absence of saturated conditions identified during this investigation, it is Lockformer's opinion that the depression in the contact of the mass waste unit/lower till unit located in the vicinity of CSB-1817 and CSB-1817B does not provide for the significant (in the context of a groundwater remediation system) accumulation of precipitation infiltration. This area will not be considered during the evaluation of groundwater remedial options; however, contamination in the lower fill in the area of



Clayton Project No. 65263.10

April 30, 2004

Page 7

Mr. Stanley F. Komperda
IEPA
Response to IEPA Comments

CSB-1817B exceeds the remediation objective. This should not result in any delays in the implementation of those options.

7. *Figures 2-2 and 5.2-1. Please verify the location of CSB-1840 and contours of lower till. On Figure 2-2, the distance between CBS-1839 and CSB-1840 is approximately 25 feet. Figure 2-2 shows that the lower till in the vicinity of CSB-1840 is at elevation of 655 feet. On Figure 5.2-1 the distance between CBS-1839 and CSB-1840 is approximately 65 feet. Figure 5.2-1 shows that the lower till in the vicinity of CSB-1840 is at elevation of 663 feet.*

Figures 2-2, 2-3, 2-4, 3-11, and 5.2-1 each illustrate the location of CSB-1840. That location and any related contours have been evaluated in each of the figures. It has been determined that the location of CSB-1840 was misrepresented in Figure 2-4 and Figure 5.2-1, but the contours of 5.2-1 were correct. Revised copies of Figures 2-4 and 5.2-1 are presented in Attachment E.

8. *Page 5-7 and Table 5.1-5. The soil remediation objectives for upper fill/till silty clay layer for the Former Fill Pipe Area and the Former Vapor Degreaser Area are approved. The final remediation objectives for Area 2 should be recalculated based on the Comment #5.*

No response required.

9. *Page 5-8. The IEPA approves the lower till soil remediation objectives for Area 2 as Tier 1 values with the understanding that Lockformer may propose an alternative objective at some later date.*

No response required.

10. *Page 5-10. The lower till soil remediation objectives for the Former Fill Pipe Area were developed assuming horizontal contaminant migration through the till. The proposed approach to develop soil remediation objectives is sufficiently conservative. In addition, the Lockformer needs to evaluate vertical transport of contaminants through lower till into the bedrock aquifer and develop remediation objectives for this pathway.*

Response: To date, no soil samples have been collected of the lower till in the vicinity of the former fill pipe area and tested to determine vertical permeability. Lockformer will collect Shelby tube samples of the lower till in the vicinity of the former TCE fill pipe and perform vertical permeability analyses similar to those performed on the west side of Area 2.



Mr. Stanley F. Komperda
IEPA
Response to IEPA Comments

Clayton Project No. 65263.10
April 30, 2004
Page 8

11. *Page 5-12. The IEPA approves the lower till soil remediation objectives for the Area Southeast of CSB-2017B as Tier 1 values.*

No response required.

12. *Groundwater objectives have not been specifically proposed in the document.*

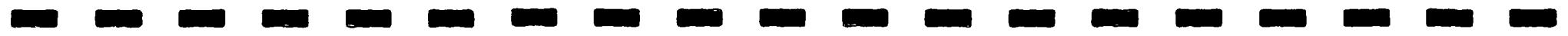
Response: Lockformer is committed to performing active groundwater remediation within Areas 1 and 2 at the Lockformer site. Pending the completion and approval of the Lockformer feasibility study and the Remedial Action Plan by the IEPA, such remediation will most likely include groundwater containment, biological treatment, or combination of both. While Lockformer anticipates that reasonable effort will be made to meet the IAC 620.210 groundwater standards at the Lockformer property boundary, this may not be possible or practicable. As a result, Lockformer reserves the right to seek environmental land use controls on adjacent properties should they be needed as an institutional control. Lockformer thus proposes that the IAC 620.210 groundwater standards be met at the downgradient boundary of any property where the environmental land use control was in place.

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald B. St. John".

Ronald B. St. John, PHG, CPG
Vice President
National Director of Remediation Services

ATTACHMENT A





ATTACHMENT A

SDMS US EPA Region V

Imagery Insert Form

**Some images in this document may be illegible or unavailable in SDMS.
Please see reason(s) indicated below:**



Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy.

Specify Type of Document(s) / Comment



Confidential Business Information (CBI).

This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document.

Specify Type of Document(s) / Comment



Unscannable Material: Oversized X or Format.

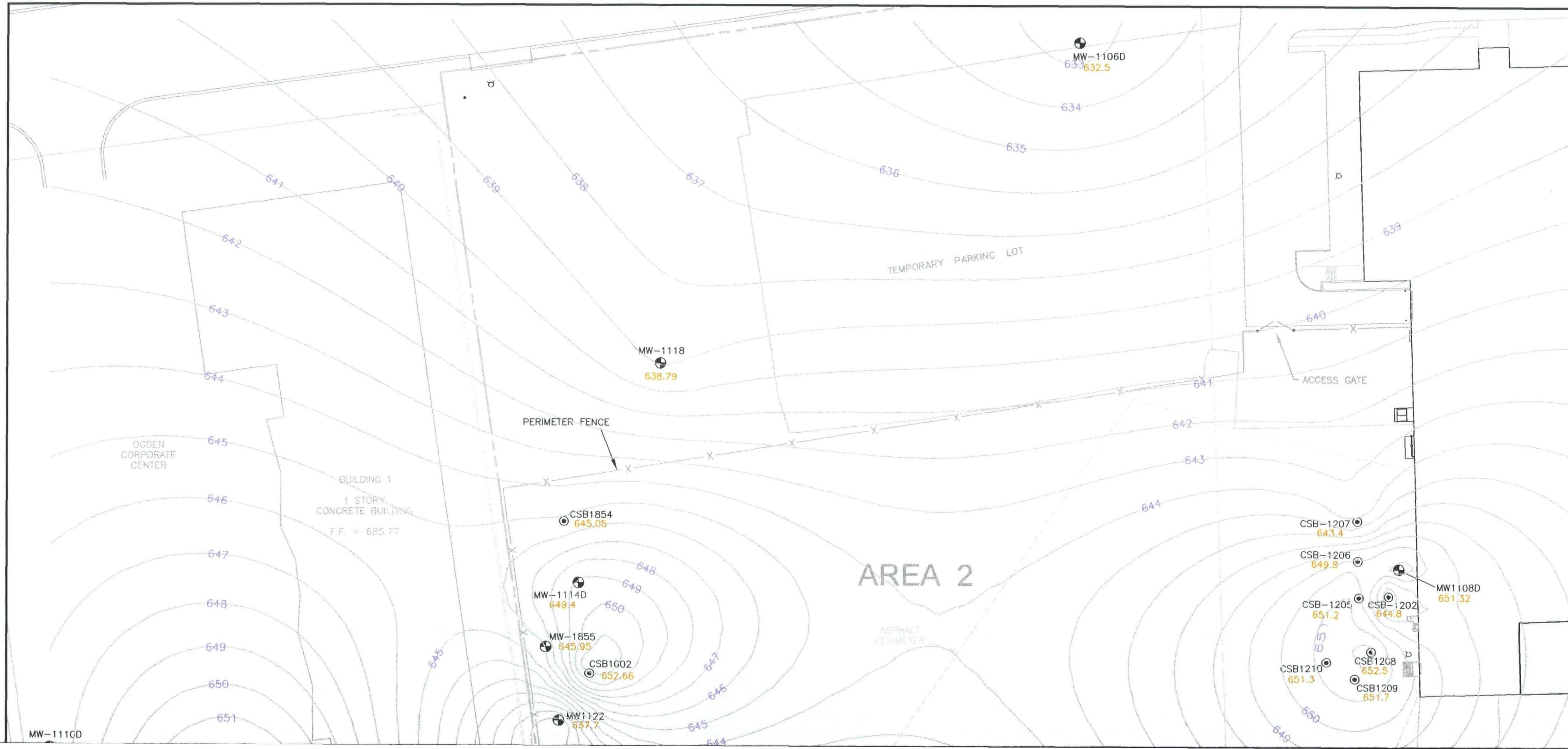
Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. The original document is available for viewing at the Superfund Records center.

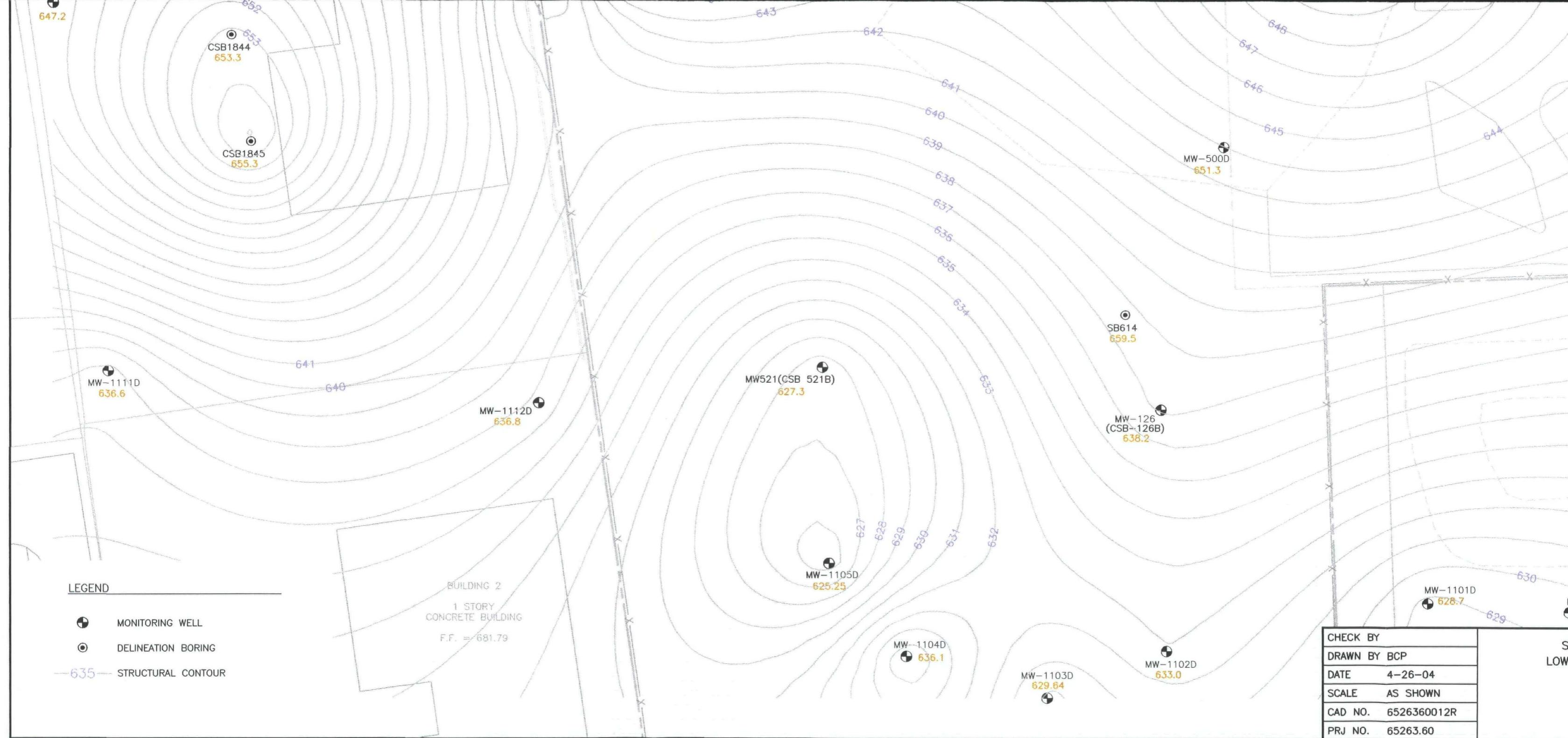
Specify Type of Document(s) / Comment

ATTACHMENT A - FIGURE 1 – 2-3

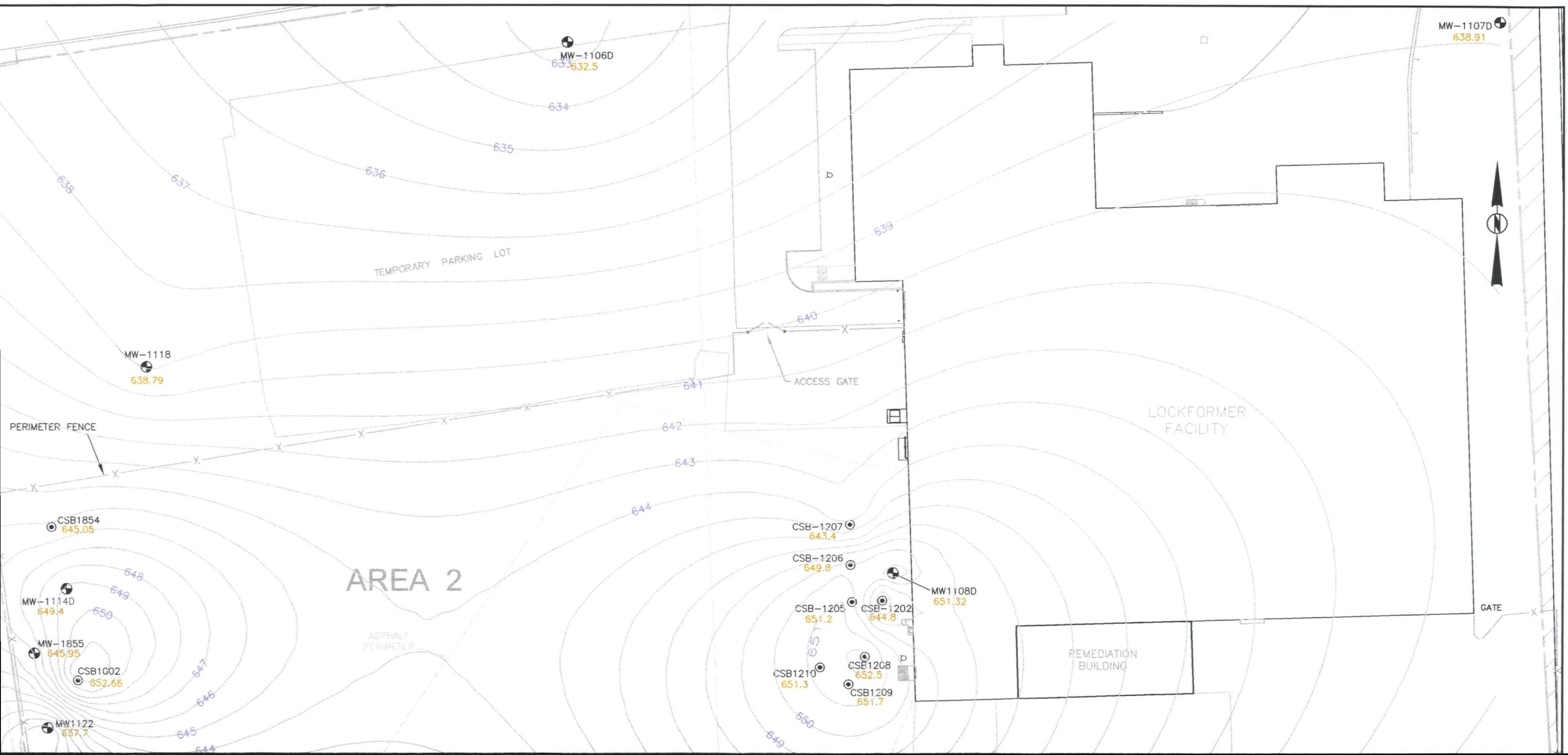


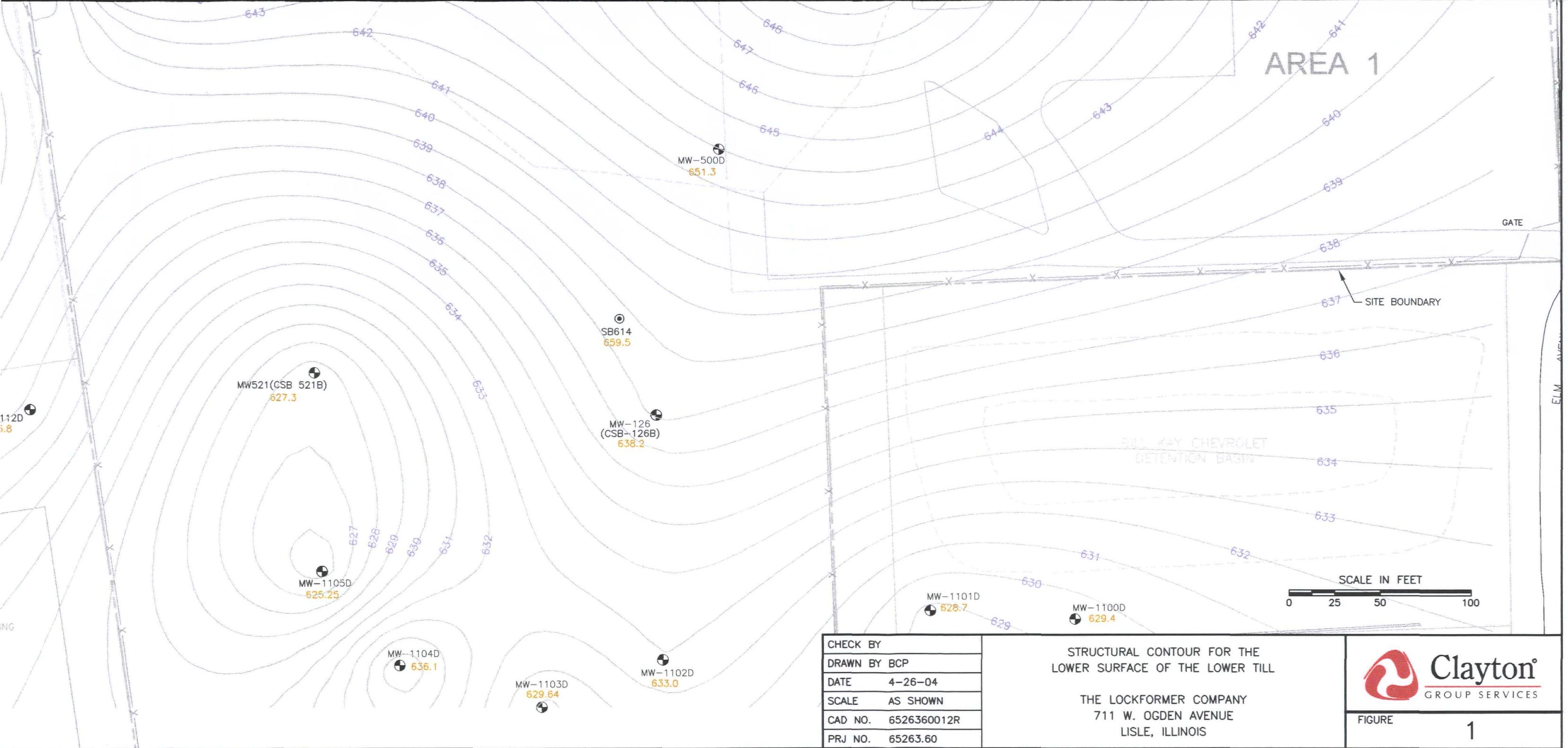
Other:

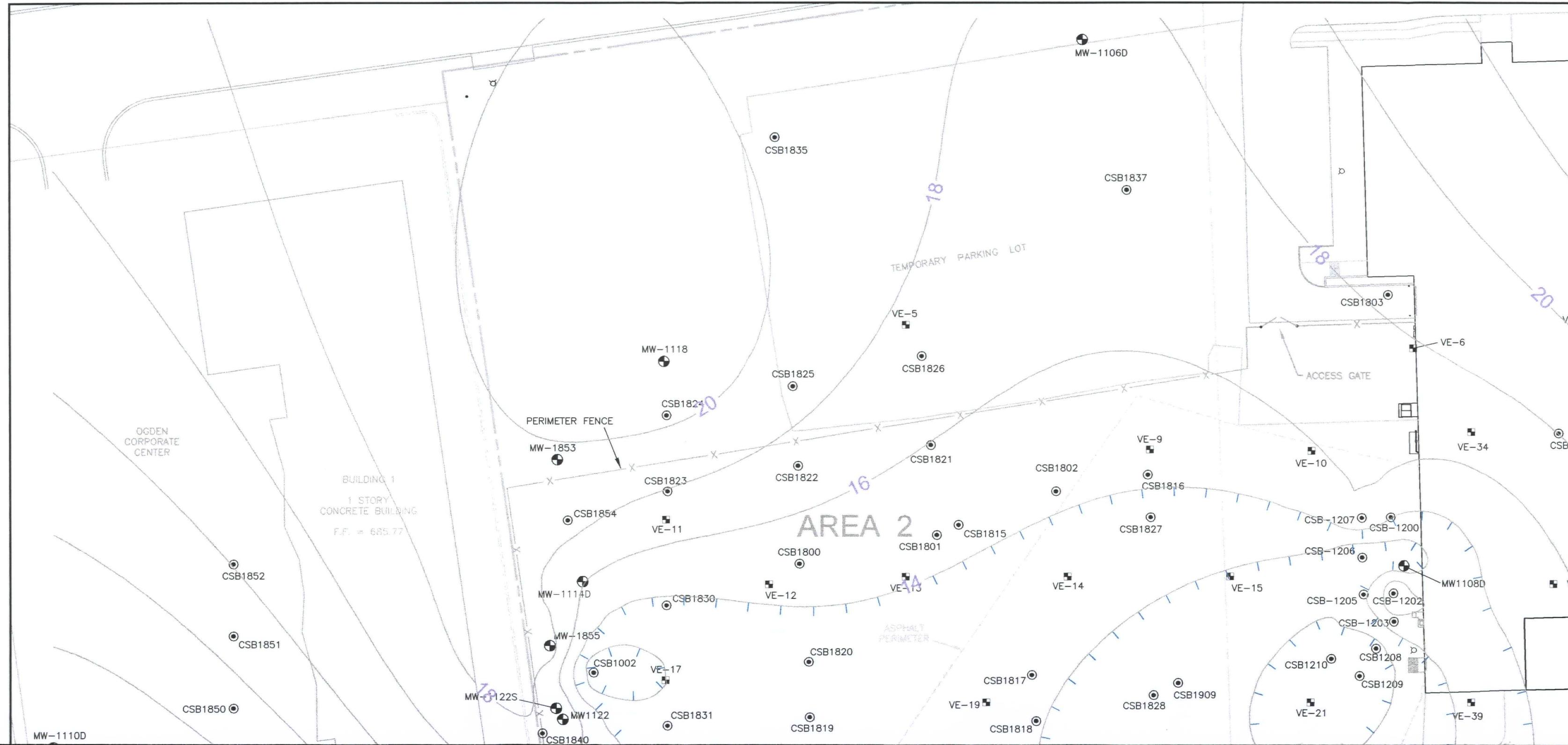


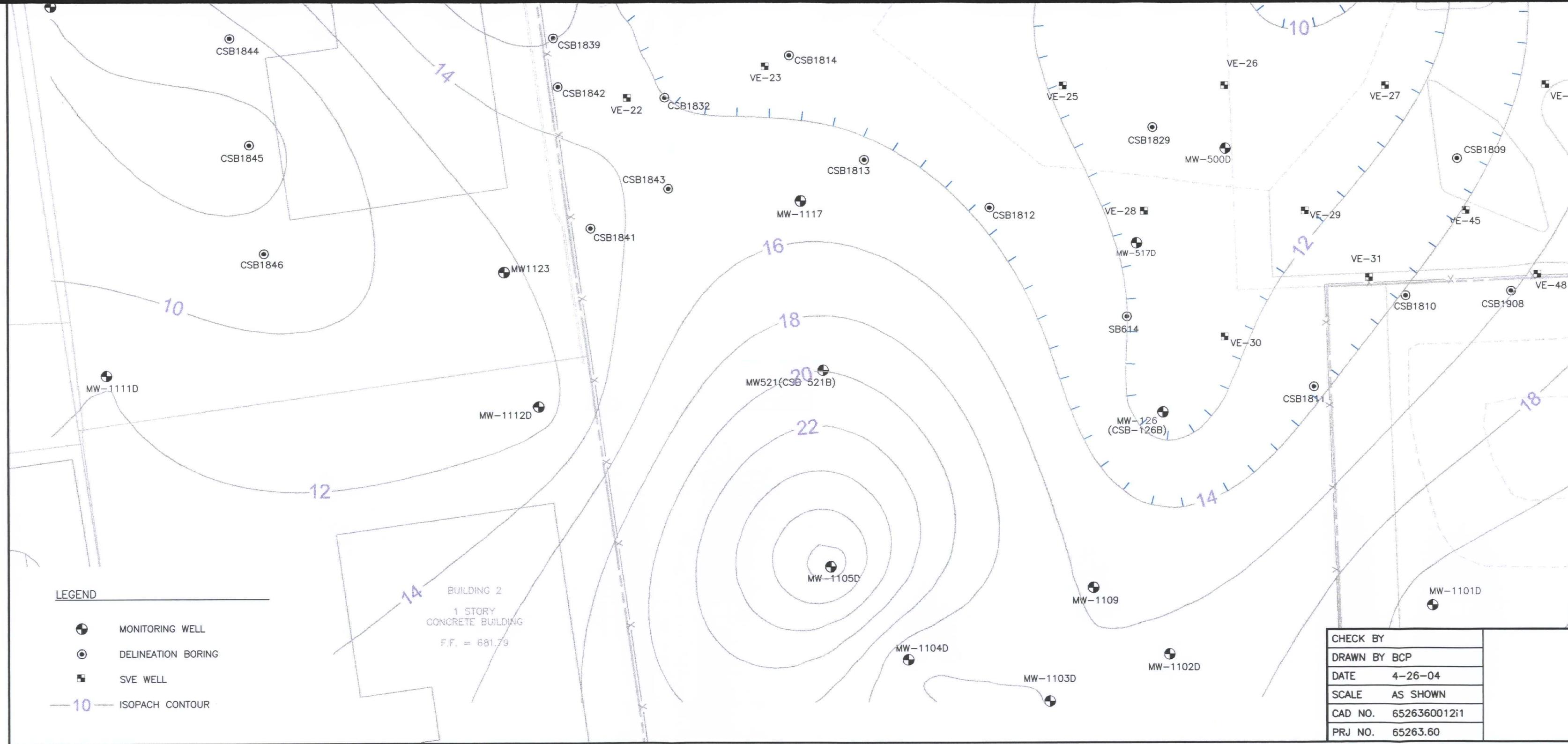


CHECK BY
DRAWN BY BCP
DATE 4-26-04
SCALE AS SHOWN
CAD NO. 6526360012R
PRJ NO. 65263.60

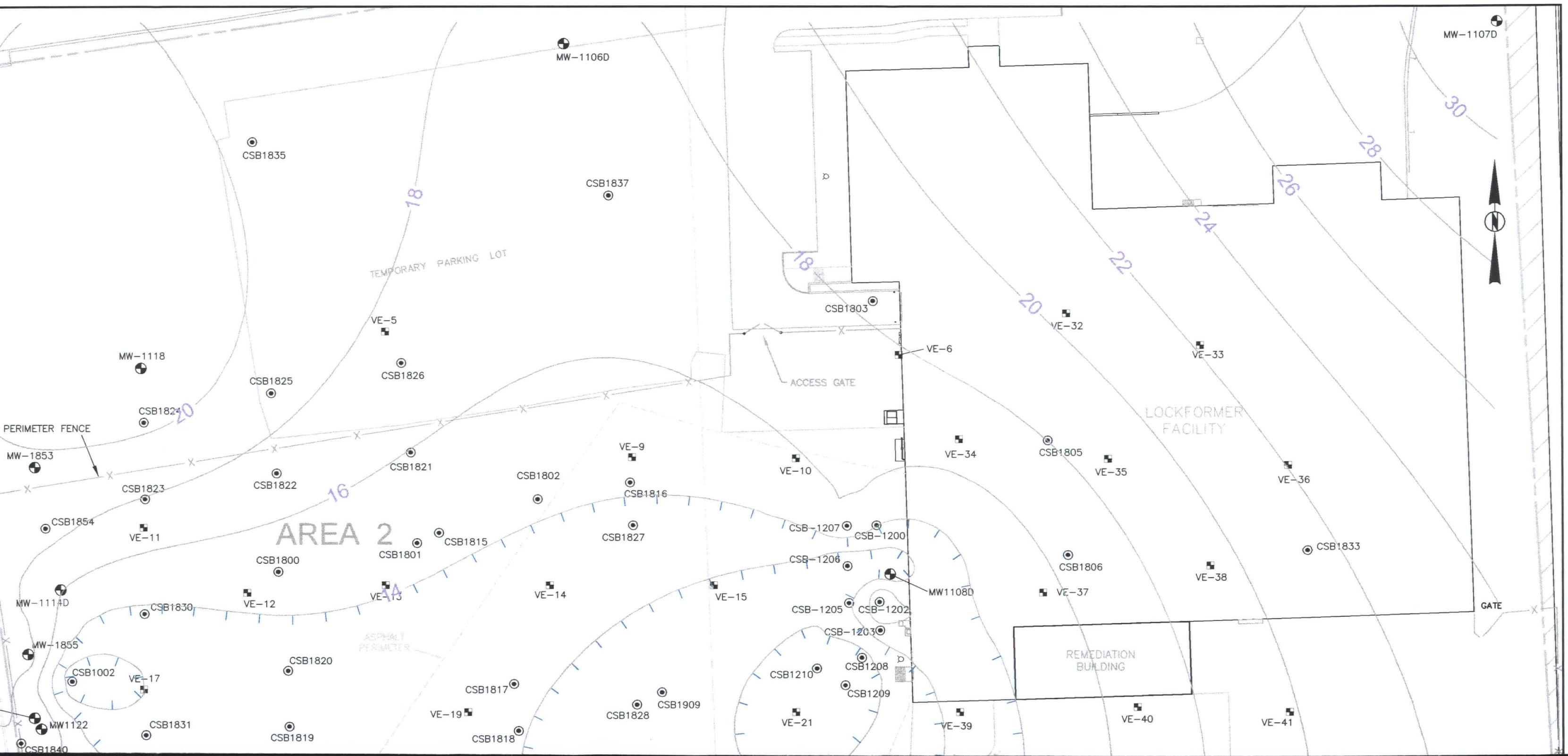


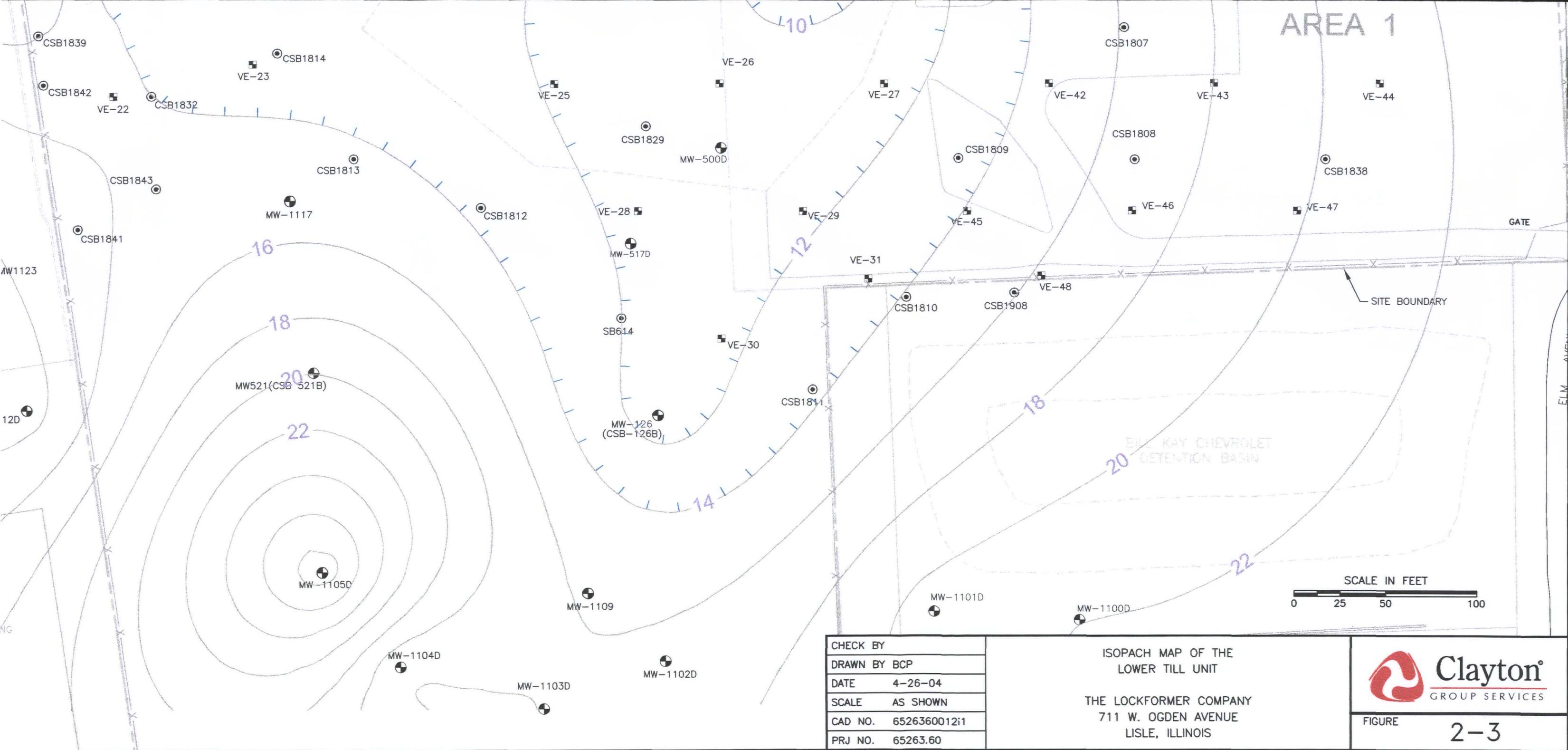






CHECK BY	
DRAWN BY BCP	
DATE	4-26-04
SCALE	AS SHOWN
CAD NO.	6526360012i1
PRJ NO.	65263.60





CHECK BY
DRAWN BY BCP
DATE 4-26-04
SCALE AS SHOWN
CAD NO. 6526360
PRJ NO. 65263.60

ISOPACH MAP OF THE
LOWER TILL UNIT



FIGURE

2-3

ATTACHMENT B





ATTACHMENT B



STL

COPY

STL Chicago
2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200 Fax: 708 534 5211
www.stl-inc.com

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 223310

Prepared For:

Clayton Group Services, Inc
3140 Finley Road
Downers Grove, IL 60515

Project: Lockformer

Attention: William Elwell

Date: 01/06/2004

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

Date

1/6/04

STL Chicago
2417 Bond Street
University Park, IL 60466

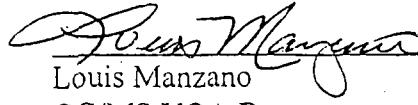
PHONE: (708) 534-5200
FAX.: (708) 534-5211

This Report Contains (2) Pages

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Clayton Group Services
Lockformer
Job Number: 223310
VOA DATA:

1. The samples were analyzed within the 14-day hold time from the date of collection.
2. The Method Blanks had compounds below the reporting limits.
3. The LCS (Laboratory Control Sample) samples had the controlled spike recoveries within the in-house generated QC limits.
4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.
5. All samples had surrogates within in-house generated QC limits.
6. The water samples were prepared using the Method 5030B procedure. The samples were analyzed following SW846 Method 8260B and 8000B. All calibration criteria were met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits.
7. All samples had internal standard areas within limits and retention times within the SOP acceptance limits as compared to the corresponding verification calibration standard.
8. Samples -2 and -3 were initially analyzed at a dilution due to a foaming matrix. The rest of the water samples were analyzed without dilution using a 25ml purge volume. Samples -1, -2, -3 and -4 required a secondary dilution for target compounds. All of the concentrations and reporting limits have been adjusted to account for the dilutions performed.



Louis Manzano
GC/MS VOA Dept.

1-6-04
Date

STL Chicago is part of Severn Trent Laboratories, Inc.

S A M P L E I N F O R M A T I O N

Date: 01/06/2004

Job Number.: 223310
Customer...: Clayton Group Services, Inc
Attn.....: William Elwell

Project Number.....: 20003903
Customer Project ID....: LOCKFORMER
Project Description....: Lockformer

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
223310-1	MW1122S	Water	12/23/2003	10:50	12/23/2003	17:45
223310-2	LPGAC01/122303	Water	12/23/2003	15:40	12/23/2003	17:45
223310-3	LPGAC02/122303	Water	12/23/2003	15:40	12/23/2003	17:45
223310-4	LPGAC03/122303	Water	12/23/2003	15:46	12/23/2003	17:45
223310-5	T8001	Water	12/23/2003	00:00	12/23/2003	17:45

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: MW1122S
Date Sampled.....: 12/23/2003
Time Sampled.....: 10:50
Sample Matrix.....: Water

Laboratory Sample ID: 223310-1
Date Received.....: 12/23/2003
Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE	RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics		150			18	50	10.0000	ug/L	106288	D1	01/05/04 1043	lm
	Acetone		1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Benzene		1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Bromodichloromethane		1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Bromoform		1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Bromomethane		1.0	U		0.10	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	2-Butanone (MEK)		5.0	U		1.2	5.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Carbon disulfide		5.0	U		0.20	5.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Carbon tetrachloride		1.0	U		0.13	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Chlorobenzene		1.0	U		0.080	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Chloroethane		1.0	U		0.080	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Chloroform		1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Chloromethane		1.0	U	*	0.080	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Dibromochloromethane		1.0	U		0.060	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	1,1-Dichloroethane		1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	1,2-Dichloroethane		1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	1,1-Dichloroethene		1.0	U		0.12	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	cis-1,2-Dichloroethene		14			0.090	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	trans-1,2-Dichloroethene		0.61	J		0.14	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	1,2-Dichloropropane		1.0	U		0.12	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	cis-1,3-Dichloropropene		1.0	U		0.12	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	trans-1,3-Dichloropropene		1.0	U		0.15	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Ethylbenzene		1.0	U		0.070	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	2-Hexanone		5.0	U		0.53	5.0	1.00000	ug/L	106192		01/02/04 1704	lm
	4-Methyl-2-pentanone (MIBK)		5.0	U		0.65	5.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Methylene chloride		1.0	U		0.35	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Styrene		1.0	U		0.13	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	1,1,2,2-Tetrachloroethane		1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1704	lm
	Tetrachloroethene		1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1704	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: MW1122S
Date Sampled.....: 12/23/2003
Time Sampled.....: 10:50
Sample Matrix.....: Water

Laboratory Sample ID: 223310-1
Date Received.....: 12/23/2003
Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	106192	01/02/04	1704	lm	
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	106192	01/02/04	1704	lm	
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	106192	01/02/04	1704	lm	
	Trichloroethene	37			1.0	10	10.0000	ug/L	106288	D1	01/05/04	1043	lm
	Vinyl acetate	5.0	U		0.69	5.0	1.00000	ug/L	106192	01/02/04	1704	lm	
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	106192	01/02/04	1704	lm	
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	106192	01/02/04	1704	lm	

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: LPGAC01/122303
 Date Sampled.....: 12/23/2003
 Time Sampled.....: 15:40
 Sample Matrix.....: Water

Laboratory Sample ID: 223310-2
 Date Received.....: 12/23/2003
 Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatile Organics											
	Acetone	510			45	120	25.0000	ug/L	106288	D1	01/05/04 1111	lm
	Benzene	10	U		0.90	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Bromodichloromethane	10	U		1.1	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Bromoform	10	U		1.1	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Bromomethane	10	U		1.0	10	10.0000	ug/L	106192		01/02/04 1937	lm
	2-Butanone (MEK)	140		M	12	50	10.0000	ug/L	106192		01/02/04 1937	lm
	Carbon disulfide	50	U		2.0	50	10.0000	ug/L	106192		01/02/04 1937	lm
	Carbon tetrachloride	10	U		1.3	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Chlorobenzene	10	U		0.80	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Chloroethane	10	U		0.80	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Chloroform	10	U		1.1	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Chloromethane	10	U	*	0.80	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Dibromochloromethane	10	U		0.60	10	10.0000	ug/L	106192		01/02/04 1937	lm
	1,1-Dichloroethane	10	U		1.1	10	10.0000	ug/L	106192		01/02/04 1937	lm
	1,2-Dichloroethane	10	U		0.90	10	10.0000	ug/L	106192		01/02/04 1937	lm
	1,1-Dichloroethene	10	U		1.2	10	10.0000	ug/L	106192		01/02/04 1937	lm
	cis-1,2-Dichloroethene	9.4	J		0.90	10	10.0000	ug/L	106192		01/02/04 1937	lm
	trans-1,2-Dichloroethene	10	U		1.4	10	10.0000	ug/L	106192		01/02/04 1937	lm
	1,2-Dichloropropane	10	U		1.2	10	10.0000	ug/L	106192		01/02/04 1937	lm
	cis-1,3-Dichloropropene	10	U		1.2	10	10.0000	ug/L	106192		01/02/04 1937	lm
	trans-1,3-Dichloropropene	10	U		1.5	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Ethylbenzene	10	U		0.70	10	10.0000	ug/L	106192		01/02/04 1937	lm
	2-Hexanone	50	U		5.3	50	10.0000	ug/L	106192		01/02/04 1937	lm
	4-Methyl-2-pentanone (MIBK)	50	U		6.5	50	10.0000	ug/L	106192		01/02/04 1937	lm
	Methylene chloride	10	U		3.5	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Styrene	10	U		1.3	10	10.0000	ug/L	106192		01/02/04 1937	lm
	1,1,2,2-Tetrachloroethane	10	U		0.90	10	10.0000	ug/L	106192		01/02/04 1937	lm
	Tetrachloroethene	10	U		0.90	10	10.0000	ug/L	106192		01/02/04 1937	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: LPGAC01/122303
Date Sampled.....: 12/23/2003
Time Sampled.....: 15:40
Sample Matrix.....: Water

Laboratory Sample ID: 223310-2
Date Received.....: 12/23/2003
Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Toluene	10	U		1.0	10	10.0000	ug/L	106192	01/02/04 1937	lm	
	1,1,1-Trichloroethane	10	U		0.80	10	10.0000	ug/L	106192	01/02/04 1937	lm	
	1,1,2-Trichloroethane	10	U		1.5	10	10.0000	ug/L	106192	01/02/04 1937	lm	
	Trichloroethene	9.5	J		1.0	10	10.0000	ug/L	106192	01/02/04 1937	lm	
	Vinyl acetate	50	U		6.9	50	10.0000	ug/L	106192	01/02/04 1937	lm	
	Vinyl chloride	10	U		0.80	10	10.0000	ug/L	106192	01/02/04 1937	lm	
	Xylenes (total)	10	U		2.8	10	10.0000	ug/L	106192	01/02/04 1937	lm	

* In Description = Dry Wgt.

Page 5

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: LPGAC02/122303
 Date Sampled.....: 12/23/2003
 Time Sampled.....: 15:40
 Sample Matrix.....: Water

Laboratory Sample ID: 223310-3
 Date Received.....: 12/23/2003
 Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Acetone	630			45	120	25.0000	ug/L	106288	D1	01/05/04 1139	lm
	Benzene	5.0	U		0.45	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Bromodichloromethane	5.0	U		0.55	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Bromoform	5.0	U		0.55	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Bromomethane	5.0	U		0.50	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	2-Butanone (MEK)	27			6.0	25	5.00000	ug/L	106192		01/02/04 1909	lm
	Carbon disulfide	25	U		1.0	25	5.00000	ug/L	106192		01/02/04 1909	lm
	Carbon tetrachloride	5.0	U		0.65	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Chlorobenzene	5.0	U		0.40	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Chloroethane	5.0	U		0.40	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Chloroform	5.0	U		0.55	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Chloromethane	5.0	U	*	0.40	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Dibromochloromethane	5.0	U		0.30	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	1,1-Dichloroethane	5.0	U		0.55	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	1,2-Dichloroethane	5.0	U		0.45	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	1,1-Dichloroethene	5.0	U		0.60	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	cis-1,2-Dichloroethene	5.0	U		0.45	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	trans-1,2-Dichloroethene	5.0	U		0.70	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	1,2-Dichloropropane	5.0	U		0.60	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	cis-1,3-Dichloropropene	5.0	U		0.60	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	trans-1,3-Dichloropropene	5.0	U		0.75	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Ethylbenzene	5.0	U		0.35	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	2-Hexanone	25	U		2.6	25	5.00000	ug/L	106192		01/02/04 1909	lm
	4-Methyl-2-pentanone (MIBK)	25	U		3.2	25	5.00000	ug/L	106192		01/02/04 1909	lm
	Methylene chloride	5.0	U		1.8	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Styrene	5.0	U		0.65	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	1,1,2,2-Tetrachloroethane	5.0	U		0.45	5.0	5.00000	ug/L	106192		01/02/04 1909	lm
	Tetrachloroethene	5.0	U		0.45	5.0	5.00000	ug/L	106192		01/02/04 1909	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 223310

Date:01/06/2004

CUSTOMER: Clayton Group Services, Inc

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: LPGAC02/122303
Date Sampled.....: 12/23/2003
Time Sampled.....: 15:40
Sample Matrix.....: Water

Laboratory Sample ID: 223310-3
Date Received.....: 12/23/2003
Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Toluene	5.0	U		0.50	5.0	5.00000	ug/L	106192	01/02/04 1909	lm	
	1,1,1-Trichloroethane	5.0	U		0.40	5.0	5.00000	ug/L	106192	01/02/04 1909	lm	
	1,1,2-Trichloroethane	5.0	U		0.75	5.0	5.00000	ug/L	106192	01/02/04 1909	lm	
	Trichloroethene	5.0	U		0.50	5.0	5.00000	ug/L	106192	01/02/04 1909	lm	
	Vinyl acetate	25	U		3.4	25	5.00000	ug/L	106192	01/02/04 1909	lm	
	Vinyl chloride	5.0	U		0.40	5.0	5.00000	ug/L	106192	01/02/04 1909	lm	
	Xylenes (total)	5.0	U		1.4	5.0	5.00000	ug/L	106192	01/02/04 1909	lm	

* In Description = Dry Wgt.

Page 7

LABORATORY TEST RESULTS

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: LPGAC03/122303
 Date Sampled.....: 12/23/2003
 Time Sampled.....: 15:46
 Sample Matrix.....: Water

Laboratory Sample ID: 223310-4
 Date Received.....: 12/23/2003
 Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Acetone	670			180	500	100.000	ug/L	106288	D1	01/05/04 1207	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	2-Butanone (MEK)	11			1.2	5.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	1,1-Dichloroethylene	1.0	U		0.12	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	cis-1,2-Dichloroethylene	1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	trans-1,2-Dichloroethylene	1.0	U		0.14	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	2-Hexanone	5.0	U		0.53	5.0	1.00000	ug/L	106192		01/02/04 1812	lm
	4-Methyl-2-pentanone (MIBK)	5.0	U		0.65	5.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Methylene chloride	1.0	U		0.35	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Tetrachloroethylene	1.0	U		0.090	1.0	1.00000	ug/L	106192		01/02/04 1812	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: LPGAC03/122303
Date Sampled.....: 12/23/2003
Time Sampled.....: 15:46
Sample Matrix.....: Water

Laboratory Sample ID: 223310-4
Date Received.....: 12/23/2003
Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	OT	DATE/TIME	TECH
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Vinyl acetate	5.0	U		0.69	5.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	106192		01/02/04 1812	lm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	106192		01/02/04 1812	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 223310

Date:01/06/2004

CUSTOMER: Clayton Group Services, Inc

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: TB001
Date Sampled.....: 12/23/2003
Time Sampled.....: 00:00
Sample Matrix....: Water

Laboratory Sample ID: 223310-5
Date Received.....: 12/23/2003
Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Acetone	5.0	U		1.8	5.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	2-Butanone (MEK)	5.0	U		1.2	5.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	2-Hexanone	5.0	U		0.53	5.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	4-Methyl-2-pentanone (MIBK)	5.0	U		0.65	5.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Methylene chloride	1.0	U		0.35	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc

PROJECT: LOCKFORMER

ATTN: William Elwell

Customer Sample ID: TB001
Date Sampled.....: 12/23/2003
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 223310-5
Date Received.....: 12/23/2003
Time Received.....: 17:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Trichloroethylene	1.0	U		0.10	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Vinyl acetate	5.0	U		0.69	5.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	106192	01/02/04 1636	lm	

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

L A B O R A T O R Y C H R O N I C L E

Job Number: 223310

Date: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

Lab ID: 223310-1 Client ID: MW1122S

METHOD	DESCRIPTION	Date Recvd:	Sample Date:	DATE/TIME ANALYZED	DILUTION
50308	5030 25 mL Purge Prep	12/23/2003	12/23/2003	01/02/2004	1704
50308	5030 25 mL Purge Prep			01/05/2004	1043
EDD	Electronic Data Deliverable	1			
82608	Volatile Organics	1	12/23/2003	01/02/2004	1704
82608	Volatile Organics	1	12/23/2003	01/05/2004	1043

Lab ID: 223310-2 Client ID: LPGAC01/122303

METHOD	DESCRIPTION	Date Recvd:	Sample Date:	DATE/TIME ANALYZED	DILUTION
50308	5030 25 mL Purge Prep	12/23/2003	12/23/2003	01/02/2004	1937
50308	5030 25 mL Purge Prep			01/05/2004	1111
82608	Volatile Organics	1	12/23/2003	01/02/2004	1937
82608	Volatile Organics	1	12/23/2003	01/05/2004	1111

Lab ID: 223310-3 Client ID: LPGAC02/122303

METHOD	DESCRIPTION	Date Recvd:	Sample Date:	DATE/TIME ANALYZED	DILUTION
50308	5030 25 mL Purge Prep	12/23/2003	12/23/2003	01/02/2004	1909
50308	5030 25 mL Purge Prep			01/05/2004	1139
82608	Volatile Organics	1	12/23/2003	01/02/2004	1909
82608	Volatile Organics	1	12/23/2003	01/05/2004	1139

Lab ID: 223310-4 Client ID: LPGAC03/122303

METHOD	DESCRIPTION	Date Recvd:	Sample Date:	DATE/TIME ANALYZED	DILUTION
50308	5030 25 mL Purge Prep	12/23/2003	12/23/2003	01/02/2004	1812
50308	5030 25 mL Purge Prep			01/05/2004	1207
82608	Volatile Organics	1	12/23/2003	01/02/2004	1812
82608	Volatile Organics	1	12/23/2003	01/05/2004	1207

Lab ID: 223310-5 Client ID: TB001

METHOD	DESCRIPTION	Date Recvd:	Sample Date:	DATE/TIME ANALYZED	DILUTION
50308	5030 25 mL Purge Prep	12/23/2003	12/23/2003	01/02/2004	1636
82608	Volatile Organics	1	12/23/2003	01/02/2004	1636

STL Chicago is part of Severn Trent Laboratories, Inc.

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 223310

Report Date.: 01/06/2004

CUSTOMER: Clayton Group Services, Inc

PROJECT: LOCKFORMER

ATTN: William Elwell

Method.....: Volatile Organics
Method Code...: 8260B

Test Matrix...: Water
Batch(s).....: 106192

Prep Batch..: 106191

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			01/02/2004	104	101	95	99
MB			01/02/2004	101	102	99	101
223310- 1		MW1122S	01/02/2004	116	101	106	102
223310- 2		LPGAC01/122303	01/02/2004	105	98	101	98
223310- 3		LPGAC02/122303	01/02/2004	111	105	108	105
223310- 4		LPGAC03/122303	01/02/2004	102	98	101	99
223310- 5		T8001	01/02/2004	110	101	105	105

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

Method.....: Volatile Organics
Method Code...: 8260B

Test Matrix...: Water
Batch(s).....: 106288

Prep Batch..: 106287

Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFLM	TOLD8
LCS			01/05/2004	107	104	100	101
MB			01/05/2004	106	101	98	103
223310- 1	D1	MW1122S	01/05/2004	117	110	113	111
223310- 2	D1	LPGAC01/122303	01/05/2004	115	108	107	110
223310- 3	D1	LPGAC02/122303	01/05/2004	115	112	106	112
223310- 4	D1	LPGAC03/122303	01/05/2004	115	112	110	114

Test	Test Description	Limits
12DCED	1,2-Dichloroethane-d4 (surr)	61 - 131
BRFLBE	4-Bromofluorobenzene (surr)	73 - 122
DBRFLM	Dibromofluoromethane (surr)	66 - 132
TOLD8	Toluene-d8 (surr)	78 - 128

QUALITY CONTROL RESULTS

Job Number.: 223310

Report Date.: 01/06/2004

CUSTOMER: Clayton Group Services, Inc

PROJECT: LOCKFORMER

ATTN: William Elwell

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8260B
Method Description.: Volatile OrganicsEquipment Code....: GCL3
Batch.....: 106192

Analyst...: lm

LCS	Laboratory Control Sample	V04A02DSA	106191-012		01/02/2004	1026
-----	---------------------------	-----------	------------	--	------------	------

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Chloromethane	ug/L	14.193		10.000	1.000	U 142	%	56-129	*
Vinyl chloride	ug/L	10.430		10.000	1.000	U 104	%	67-137	
Bromomethane	ug/L	9.750		10.000	1.000	U 97	%	51-152	
Chloroethane	ug/L	9.433		10.000	1.000	U 94	%	68-135	
1,1-Dichloroethene	ug/L	8.533		10.000	1.000	U 85	%	54-127	
Carbon disulfide	ug/L	9.379		10.000	5.000	U 94	%	29-136	
Acetone	ug/L	11.618		10.000	5.000	U 116	%	43-150	
Methylene chloride	ug/L	7.483		10.000	1.000	U 75	%	52-133	
trans-1,2-Dichloroethene	ug/L	8.787		10.000	1.000	U 88	%	64-119	
1,1-Dichloroethane	ug/L	8.698		10.000	1.000	U 87	%	69-127	
Vinyl acetate	ug/L	11.602		10.000	5.000	U 116	%	70-130	
cis-1,2-Dichloroethene	ug/L	9.298		10.000	1.000	U 93	%	78-126	
2-Butanone (MEK)	ug/L	8.291		10.000	5.000	U 83	%	54-145	
Chloroform	ug/L	9.941		10.000	1.000	U 99	%	74-128	
1,1,1-Trichloroethane	ug/L	11.113		10.000	1.000	U 111	%	66-129	
Carbon tetrachloride	ug/L	10.874		10.000	1.000	U 109	%	66-136	
Benzene	ug/L	8.949		10.000	1.000	U 89	%	74-116	
1,2-Dichloroethane	ug/L	10.362		10.000	1.000	U 104	%	63-133	
Trichloroethene	ug/L	9.087		10.000	1.000	U 91	%	70-120	
1,2-Dichloropropane	ug/L	8.492		10.000	1.000	U 85	%	71-132	
Bromodichloromethane	ug/L	10.161		10.000	1.000	U 102	%	76-129	
cis-1,3-Dichloropropene	ug/L	8.894		10.400	1.000	U 86	%	75-123	
4-Methyl-2-pentanone (MIBK)	ug/L	10.282		10.000	5.000	U 103	%	66-147	
Toluene	ug/L	10.012		10.000	1.000	U 100	%	71-122	
trans-1,3-Dichloropropene	ug/L	8.715		9.600	1.000	U 91	%	76-126	
1,1,2-Trichloroethane	ug/L	9.075		10.000	1.000	U 91	%	69-138	
Tetrachloroethene	ug/L	10.422		10.000	1.000	U 104	%	69-128	
2-Hexanone	ug/L	11.788		10.000	5.000	U 118	%	70-144	
Dibromochloromethane	ug/L	9.494		10.000	1.000	U 95	%	74-137	
Chlorobenzene	ug/L	10.003		10.000	1.000	U 100	%	76-124	
Ethylbenzene	ug/L	10.713		10.000	1.000	U 107	%	74-121	
Styrene	ug/L	9.141		10.000	1.000	U 91	%	80-125	
Bromoform	ug/L	10.384		10.000	1.000	U 104	%	73-139	
1,1,2,2-Tetrachloroethane	ug/L	9.624		10.000	1.000	U 96	%	72-127	
Xylenes (total)	ug/L	32.943		30.000	1.000	U 110	%	76-138	

QUALITY CONTROL RESULTS

Job Number.: 223310

Report Date.: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8260B

Method Description.: Volatile Organics

Equipment Code....: GCL3.

Batch.....: 106192

Analyst...: lm

MB	Method Blank			106191-011			01/02/2004 0958
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. * Limits F
	Chloromethane	ug/L	1.000	U			
	Vinyl chloride	ug/L	1.000	U			
	Bromomethane	ug/L	1.000	U			
	Chloroethane	ug/L	1.000	U			
	1,1-Dichloroethene	ug/L	1.000	U			
	Carbon disulfide	ug/L	5.000	U			
	Acetone	ug/L	5.000	U			
	Methylene chloride	ug/L	1.000	U			
	trans-1,2-Dichloroethene	ug/L	1.000	U			
	1,1-Dichloroethane	ug/L	1.000	U			
	Vinyl acetate	ug/L	5.000	U			
	cis-1,2-Dichloroethene	ug/L	1.000	U			
	2-Butanone (MEK)	ug/L	5.000	U			
	Chloroform	ug/L	1.000	U			
	1,1,1-Trichloroethane	ug/L	1.000	U			
	Carbon tetrachloride	ug/L	1.000	U			
	Benzene	ug/L	1.000	U			
	1,2-Dichloroethane	ug/L	1.000	U			
	Trichloroethene	ug/L	1.000	U			
	1,2-Dichloropropane	ug/L	1.000	U			
	Bromodichloromethane	ug/L	1.000	U			
	cis-1,3-Dichloropropene	ug/L	1.000	U			
	4-Methyl-2-pentanone (MIBK)	ug/L	5.000	U			
	Toluene	ug/L	1.000	U			
	trans-1,3-Dichloropropene	ug/L	1.000	U			
	1,1,2-Trichloroethane	ug/L	1.000	U			
	Tetrachloroethene	ug/L	1.000	U			
	2-Hexanone	ug/L	5.000	U			
	Dibromochloromethane	ug/L	1.000	U			
	Chlorobenzene	ug/L	1.000	U			
	Ethylbenzene	ug/L	1.000	U			
	Styrene	ug/L	1.000	U			
	Bromoform	ug/L	1.000	U			
	1,1,2,2-Tetrachloroethane	ug/L	1.000	U			
	Xylenes (total)	ug/L	1.000	U			

QUALITY CONTROL RESULTS

Report Date.: 01/06/2004

Job Number.: 223310

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATTN: William Elwell

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8260B
Method Description.: Volatile OrganicsEquipment Code....: GCL3
Batch.....: 106288

Analyst...: lm

LCS	Laboratory Control Sample	V04A05DSA	106287-008	01/05/2004	1014			
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits
Acetone	ug/L	10.906		10.000	5.000	U 109	%	43-150
Trichloroethene	ug/L	8.569		10.000	1.000	U 86	%	70-120

QUALITY CONTROL RESULTS

Job Number.: 223310

Report Date.: 01/06/2004

CUSTOMER: Clayton Group Services, Inc.

PROJECT: LOCKFORMER

ATIN: William Elwell

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8260B

Equipment Code....: GCL3

Analyst...: lm

Method Description.: Volatile Organics

Batch.....: 106288

MB	Method Blank			106287-007			01/05/2004 0946
----	--------------	--	--	------------	--	--	-----------------

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Acetone	ug/L	5.000	U					
Trichloroethene	ug/L	1.000	U					

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/06/2004

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- ICV,CCV,ICB,CCB,ISA,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- * LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

- B MB: Batch QC is greater than reporting limit.
- * LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
- A Concentration exceeds the instrument calibration range
- a Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interfence, recovery is not calculated.
- M Manually integrated compound.
- P The lower of the two values is reported when the % difference between the results of two GC columns is

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/06/2004

greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calibration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RT	Retention Time

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/06/2004

RTW Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number

SCB Seeded Control Blank

SD Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)

UCB Unseeded Control Blank

SSV Second Source Verification Standard

SLCS Solid Laboratory Control Standard(LCS)

PHC pH Calibration Check LCSP pH Laboratory Control Sample

LCDP pH Laboratory Control Sample Duplicate

MDPH pH Sample Duplicate

MDFP Flashpoint Sample Duplicate

LCFP Flashpoint LCS

G1 Gelex Check Standard Range 0-1

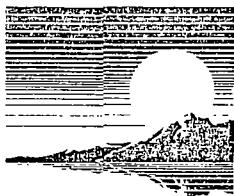
G2 Gelex Check Standard Range 1-10

G3 Gelex Check Standard Range 10-100

G4 Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

CASE NARRATIVE QA/QC Summary

Mr. William Elwell
CLAYTON GROUP SERVICES
3140 Finley Road
Downers Grove, IL 60515

November 6, 2003

Project I.D.: **15-65263**
First Environmental File ID: **11588-89**
Date Received : **November 3, 2003**

The following data package includes the supporting quality control information for the above referenced project.

Reference Document: Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996 and it's updates.

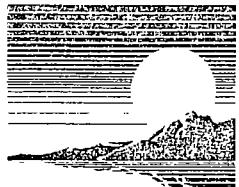
Volatiles Analysis

All analyses were performed within established holding times, and all quality control criteria, as outlined in the methods, have been met.

Project Manager: Bill Mottashed

Reviewed by: B. Mangan

Date: 11/6/03



**First
Environmental
Laboratories, Inc.**

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

November 6, 2003

Mr. Bill Elwell
CLAYTON GROUP SERVICES INC.
3140 Finley Road
Downers Grove, IL 60515

Project ID: 15-65263
First Environmental File ID: 11588-89
Date Received: November 3, 2003

Dear Mr. Elwell:

The above referenced project was analyzed as requested on the enclosed chain of custody record.

PROJECT SUMMARY

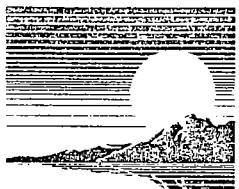
Analyses were performed in accordance with the methods found in the EPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the Analytical Report.

A QC summary data package has been included as part of this report.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

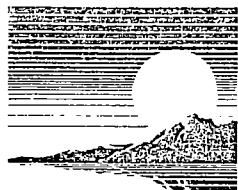
Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	11588	Date Taken:	10/31/03
Sample Description:	CSB1855/31	Time Taken:	9:30
Lab File ID:	11588-89	Date Reported:	11/06/03

Analyte	Result	Units	Flags
Solids, Total	83.63	%	

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 11/04/03

Acetone	< 10	ug/kg
Benzene	< 5.0	ug/kg
Bromodichloromethane	< 5.0	ug/kg
Bromoform	< 5.0	ug/kg
Bromomethane	< 10	ug/kg
2-Butanone	< 10	ug/kg
Carbon disulfide	< 5.0	ug/kg
Carbon tetrachloride	< 5.0	ug/kg
Chlorobenzene	< 5.0	ug/kg
Chlorodibromomethane	< 5.0	ug/kg
Chloroethane	< 10	ug/kg
Chloroform	< 5.0	ug/kg
Chloromethane	< 10	ug/kg
1,1-Dichloroethane	< 5.0	ug/kg
1,2-Dichloroethane	< 5.0	ug/kg
1,1-Dichloroethene	< 5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	ug/kg
1,2-Dichloropropane	< 5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	ug/kg
Ethyl benzene	< 5.0	ug/kg
2-Hexanone	< 10	ug/kg
4-Methyl-2-pentanone	< 10	ug/kg
Methylene chloride	< 5.0	ug/kg
Styrene	< 5.0	ug/kg



First Environmental Laboratories, Inc.

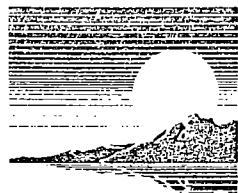
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	11588	Date Taken:	10/31/03
Sample Description:	CSB1855/31	Time Taken:	9:30
Lab File ID:	11588-89	Date Reported:	11/06/03

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 5.0	ug/kg	
Vinyl Chloride	< 10	ug/kg	
Xylenes (total)	< 15	ug/kg	

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	92	%	73-129
Toluene-d8	100	%	92-110
4-Bromofluorobenzene	86	%	84-125



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

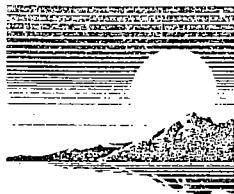
Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	11589	Date Taken:	11/03/03
Sample Description:	CSB1855/36	Time Taken:	14:30
Lab File ID:	11588-89	Date Reported:	04/26/04

Analyte	Result	Units	Flags
Solids, Total	89.72	%	

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 11/04/03

Acetone	< 10	ug/kg
Benzene	< 5.0	ug/kg
Bromodichloromethane	< 5.0	ug/kg
Bromoform	< 5.0	ug/kg
Bromomethane	< 10	ug/kg
2-Butanone	< 10	ug/kg
Carbon disulfide	< 5.0	ug/kg
Carbon tetrachloride	< 5.0	ug/kg
Chlorobenzene	< 5.0	ug/kg
Chlorodibromomethane	< 5.0	ug/kg
Chloroethane	< 10	ug/kg
Chloroform	< 5.0	ug/kg
Chloromethane	< 10	ug/kg
1,1-Dichloroethane	< 5.0	ug/kg
1,2-Dichloroethane	< 5.0	ug/kg
1,1-Dichloroethene	< 5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	ug/kg
1,2-Dichloropropane	< 5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	ug/kg
Ethyl benzene	< 5.0	ug/kg
2-Hexanone	< 10	ug/kg
4-Methyl-2-pentanone	< 10	ug/kg
Methylene chloride	< 5.0	ug/kg
Styrene	< 5.0	ug/kg



First Environmental Laboratories, Inc.

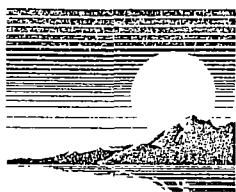
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	11589	Date Taken:	11/03/03
Sample Description:	CSB1855/36	Time Taken:	14:30
Lab File ID:	11588-89	Date Reported:	04/26/04

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 5.0	ug/kg	
Vinyl Chloride	< 10	ug/kg	
Xylenes (total)	< 15	ug/kg	

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	93	%	73-129
Toluene-d8	97	%	92-110
4-Bromofluorobenzene	88	%	84-125



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

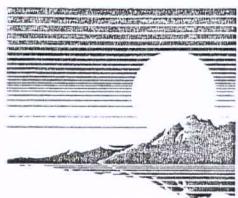
Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	VBLK	Date Taken:	N/A
Sample Description:	Method Blank - soil	Time Taken:	N/A
Lab File ID:	11588-89	Date Reported:	11/06/03

Analyte	Result	Units	Flags
Solids, Total		%	

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 11/04/03

Acetone	< 10	ug/kg
Benzene	< 5.0	ug/kg
Bromodichloromethane	< 5.0	ug/kg
Bromoform	< 5.0	ug/kg
Bromomethane	< 10	ug/kg
2-Butanone	< 10	ug/kg
Carbon disulfide	< 5.0	ug/kg
Carbon tetrachloride	< 5.0	ug/kg
Chlorobenzene	< 5.0	ug/kg
Chlorodibromomethane	< 5.0	ug/kg
Chloroethane	< 10	ug/kg
Chloroform	< 5.0	ug/kg
Chloromethane	< 10	ug/kg
1,1-Dichloroethane	< 5.0	ug/kg
1,2-Dichloroethane	< 5.0	ug/kg
1,1-Dichloroethene	< 5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	ug/kg
1,2-Dichloropropane	< 5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	ug/kg
Ethyl benzene	< 5.0	ug/kg
2-Hexanone	< 10	ug/kg
4-Methyl-2-pentanone	< 10	ug/kg
Methylene chloride	< 5.0	ug/kg
Styrene	< 5.0	ug/kg



First Environmental Laboratories, Inc.

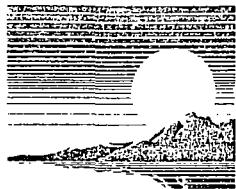
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	VBLK	Date Taken:	N/A
Sample Description:	Method Blank - soil	Time Taken:	N/A
Lab File ID:	11588-89	Date Reported:	11/06/03

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 5.0	ug/kg	
Vinyl Chloride	< 10	ug/kg	
Xylenes (total)	< 15	ug/kg	

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	89	%	73-129
Toluene-d8	96	%	92-110
4-Bromofluorobenzene	90	%	84-125



**First
Environmental
Laboratories, Inc.**

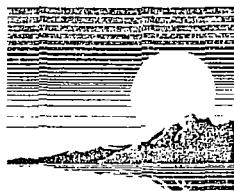
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	LCS	Date Taken:	N/A
Sample Description:	LCS - soil	Time Taken:	N/A
Lab File ID:	11588-89	Date Reported:	11/06/03

Volatile Organic Compounds Method 5035A/8260B

Surrogate Compound	Recovery	Units	QC
			Limits
LAB_CHEM	RECOVER		
1,1-Dichloroethene	105	%	36-155
Benzene	105	%	53-119
Trichloroethene	97	%	59-126
Toluene	97	%	51-120
Chlorobenzene	99	%	45-116
		QC	
		Units	Limits
Dibromofluoromethane	93	%	73-129
Toluene-d8	98	%	92-110
4-Bromofluorobenzene	96	%	84-125



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	11/03/03
Sample Number:	CSB1855/31	Date Taken:	N/A
Sample Description:	MS / MSD - soil	Time Taken:	N/A
Lab File ID:	11588-89	Date Reported:	11/06/03

Volatile Organic Compounds Method 5035A/8260B

Surrogate Compound	Percent Recovery			QC Limits	
	MS	MSD	RPD	RPD	%R
1,1-Dichloroethene	93	101	8	22	36-155
Benzene	96	97	1	21	53-119
Trichloroethene	82	80	2	24	59-126
Toluene	79	76	4	21	51-120
Chlorobenzene	78	75	4	21	45-116
QC					
Surrogate Compound		Recovery		Units	Limits
Dibromofluoromethane		88	84	%	62-156
Toluene-d8		93	95	%	90-106
4-Bromofluorobenzene		85	86	%	53-120



First Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 1 pgs

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: Clayton Group Services
Street Address: 3140 Finley Rd
City: Des Moines Iowa State: IL Zip: 60515
Phone: 630-795-3200 Fax: 630-795-1130
Send Report To: B. Elwell
Sampled By: Joe Campbell

- 4 frozen vials

Cooler Temperature: 9 °C until jars

Received within 6 hrs. of collection: _____

Notes and Special Instructions: _____ *Stand. Turn*

Relinquished By: per legal Date/Time 10/11/03 03:18:15 Received By: Alissa Schutte Date/Time 10/11/03 16:10
Relinquished By: Alissa Schutte Date/Time 10/13/03 16:35 Received By: Julieann Poirier Date/Time 10/13/03 16:35



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

November 5, 2003

Mr. Bill Elwell
CLAYTON GROUP SERVICES INC.
3140 Finley Road
Downers Grove, IL 60515

Project ID: 1565263
First Environmental File ID: 11184-85
Date Received: October 29, 2003

Dear Mr. Elwell:

The above referenced project was analyzed as requested on the enclosed chain of custody record.

PROJECT SUMMARY

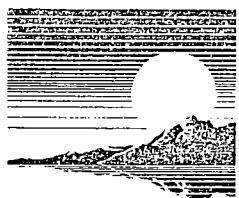
Analyses were performed in accordance with the methods found in the EPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. Specific method references are listed on the Analytical Report.

A QC summary data package has been included as part of this report.

I thank you for the opportunity to be of service and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

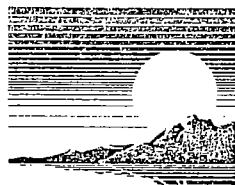
Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	10/29/03
Sample Number:	11184	Date Taken:	10/29/03
Sample Description:	CSB1853/33	Time Taken:	1100
Lab File ID:	11184-85	Date Reported:	11/05/03

Analyte	Result	Units	Flags
Solids, Total	80.10	%	

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 10/30/03

Acetone	< 10	ug/kg
Benzene	< 5.0	ug/kg
Bromodichloromethane	< 5.0	ug/kg
Bromoform	< 5.0	ug/kg
Bromomethane	< 10	ug/kg
2-Butanone	< 10	ug/kg
Carbon disulfide	< 5.0	ug/kg
Carbon tetrachloride	< 5.0	ug/kg
Chlorobenzene	< 5.0	ug/kg
Chlorodibromomethane	< 5.0	ug/kg
Chloroethane	< 10	ug/kg
Chloroform	< 5.0	ug/kg
Chloromethane	< 10	ug/kg
1,1-Dichloroethane	< 5.0	ug/kg
1,2-Dichloroethane	< 5.0	ug/kg
1,1-Dichloroethene	< 5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	ug/kg
1,2-Dichloropropane	< 5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	ug/kg
Ethyl benzene	< 5.0	ug/kg
2-Hexanone	< 10	ug/kg
4-Methyl-2-pentanone	< 10	ug/kg
Methylene chloride	< 5.0	ug/kg
Styrene	< 5.0	ug/kg



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	10/29/03
Sample Number:	11184	Date Taken:	10/29/03
Sample Description:	CSB1853/33	Time Taken:	1100
Lab File ID:	11184-85	Date Reported:	11/05/03

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 5.0	ug/kg	
Vinyl Chloride	< 10	ug/kg	
Xylenes (total)	< 15	ug/kg	

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	92	%	73-129
Toluene-d8	95	%	92-110
4-Bromofluorobenzene	88	%	84-125



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

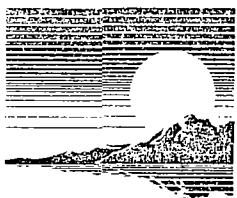
Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	10/29/03
Sample Number:	11185	Date Taken:	10/29/03
Sample Description:	CSB1854/31.5	Time Taken:	1405
Lab File ID:	11184-85	Date Reported:	11/05/03

Analyte	Result	Units	Flags
Solids, Total	87.32	%	

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 11/05/03

Acetone	< 10	ug/kg
Benzene	< 5.0	ug/kg
Bromodichloromethane	< 5.0	ug/kg
Bromoform	< 5.0	ug/kg
Bromomethane	< 10	ug/kg
2-Butanone	< 10	ug/kg
Carbon disulfide	< 5.0	ug/kg
Carbon tetrachloride	< 5.0	ug/kg
Chlorobenzene	< 5.0	ug/kg
Chlorodibromomethane	< 5.0	ug/kg
Chloroethane	< 10	ug/kg
Chloroform	< 5.0	ug/kg
Chloromethane	< 10	ug/kg
1,1-Dichloroethane	< 5.0	ug/kg
1,2-Dichloroethane	< 5.0	ug/kg
1,1-Dichloroethene	< 5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	ug/kg
1,2-Dichloropropane	< 5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	ug/kg
Ethyl benzene	< 5.0	ug/kg
2-Hexanone	< 10	ug/kg
4-Methyl-2-pentanone	< 10	ug/kg
Methylene chloride	< 5.0	ug/kg
Styrene	< 5.0	ug/kg



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	10/29/03
Sample Number:	11185	Date Taken:	10/29/03
Sample Description:	CSB1854/31.5	Time Taken:	1405
Lab File ID:	11184-85	Date Reported:	11/05/03

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 5.0	ug/kg	
Vinyl Chloride	< 10	ug/kg	
Xylenes (total)	< 15	ug/kg	

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	97	%	73-129
Toluene-d8	94	%	92-110
4-Bromofluorobenzene	86	%	84-125



First Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 1 pgs

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Matrix Codes: S = Soil W = Water O = Other

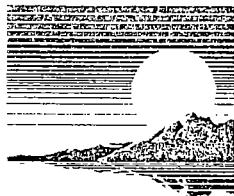
Cooler Temperature: 7 °C ~~on ice~~

Received within 6 hrs. of collection: _____

Notes and Special Instructions:

STANDARD TAT

Relinquished By: Joe Soll Date/Time 10-29-03 1430 Received By: Helen J. Berger Date/Time 10-29-03 1430
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

CASE NARRATIVE QA/QC Summary

Mr. William Elwell
CLAYTON GROUP SERVICES
3140 Finley Road
Downers Grove, IL 60515

November 5, 2003

Project I.D.: **15-65263**
First Environmental File ID: **11184-85**
Date Received : **October 29, 2003**

The following data package includes the supporting quality control information for the above referenced project.

Reference Document: Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996 and it's updates.

Volatiles Analysis

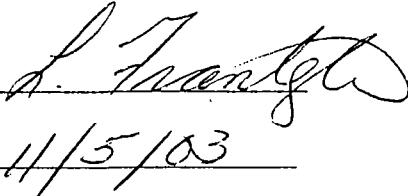
All analyses were performed within established holding times, and all quality control criteria, as outlined in the methods, have been met except as noted below:

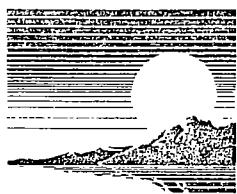
The MS/MDS RPD for two compounds failed to meet acceptance criteria. An LCS / LCS Duplicate analysis was performed. The LCS/LCSD met all acceptance criteria.

Project Manager: Bill Mottashed

Reviewed by:

Date:


L. Frank G.
11/5/03



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	10/29/03
Sample Number:	VBLK	Date Taken:	N/A
Sample Description:	Method Blank - soil	Time Taken:	N/A
Lab File ID:	11184-85	Date Reported:	11/05/03

Analyte	Result	Units	Flags
Solids, Total		%	

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 10/30/03

Acetone	< 10	ug/kg
Benzene	< 5.0	ug/kg
Bromodichloromethane	< 5.0	ug/kg
Bromoform	< 5.0	ug/kg
Bromomethane	< 10	ug/kg
2-Butanone	< 10	ug/kg
Carbon disulfide	< 5.0	ug/kg
Carbon tetrachloride	< 5.0	ug/kg
Chlorobenzene	< 5.0	ug/kg
Chlorodibromomethane	< 5.0	ug/kg
Chloroethane	< 10	ug/kg
Chloroform	< 5.0	ug/kg
Chloromethane	< 10	ug/kg
1,1-Dichloroethane	< 5.0	ug/kg
1,2-Dichloroethane	< 5.0	ug/kg
1,1-Dichloroethene	< 5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	ug/kg
1,2-Dichloropropane	< 5.0	ug/kg
cis-1,3-Dichloropropene	< 5.0	ug/kg
trans-1,3-Dichloropropene	< 5.0	ug/kg
Ethyl benzene	< 5.0	ug/kg
2-Hexanone	< 10	ug/kg
4-Methyl-2-pentanone	< 10	ug/kg
Methylene chloride	< 5.0	ug/kg
Styrene	< 5.0	ug/kg



First Environmental Laboratories, Inc.

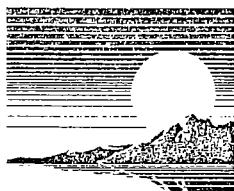
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	10/29/03
Sample Number:	VBLK	Date Taken:	N/A
Sample Description:	Method Blank - soil	Time Taken:	N/A
Lab File ID:	11184-85	Date Reported:	11/05/03

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	
Tetrachloroethene	< 5.0	ug/kg	
Toluene	< 5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	ug/kg	
Trichloroethene	< 5.0	ug/kg	
Vinyl Acetate	< 5.0	ug/kg	
Vinyl Chloride	< 10	ug/kg	
Xylenes (total)	< 15	ug/kg	

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	87	%	73-129
Toluene-d8	97	%	92-110
4-Bromofluorobenzene	94	%	84-125



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

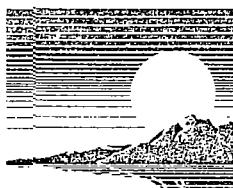
Client:	CLAYTON GROUP SERVICES		
Project ID:	15-65263 Lockformer	Date Received:	10/29/03
Sample Number:	LCS	Date Taken:	N/A
Sample Description:	LCS - soil	Time Taken:	N/A
Lab File ID:	11184-85	Date Reported:	11/05/03

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 10/30/03

	Recovery LCS	Units	QC Limits
1,1-Dichloroethene	107	%	36-155
Benzene	105	%	53-119
Trichloroethene	100	%	59-126
Toluene	102	%	51-120
Chlorobenzene	105	%	45-116

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	90	%	73-129
Toluene-d8	96	%	92-110
4-Bromofluorobenzene	99	%	84-125



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

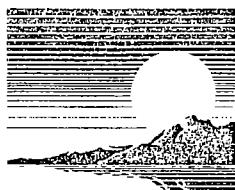
Client: CLAYTON GROUP SERVICES
Project ID: 15-65263 Lockformer Date Received: 10/29/03
Sample Number: LCS Duplicate Date Taken: N/A
Sample Description: LCS - soil Time Taken: N/A
Lab File ID: 11184-85 Date Reported: 11/05/03

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 10/30/03

	Recovery LCS	Units	QC Limits
1,1-Dichloroethene	111	%	36-155
Benzene	106	%	53-119
Trichloroethene	106	%	59-126
Toluene	105	%	51-120
Chlorobenzene	105	%	45-116

Surrogate Compound	Recovery	Units	QC Limits
Dibromofluoromethane	87	%	73-129
Toluene-d8	99	%	92-110
4-Bromo fluoro benzene	102	%	84-125



First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Certification # 100292

Analytical Report

Client: CLAYTON GROUP SERVICES
Project ID: 15-65263 Lockformer Date Received: 10/29/03
Sample Number: 11157 batch Date Taken: N/A
Sample Description: MS / MSD - soil Time Taken: N/A
Lab File ID: 11184-85 Date Reported: 11/05/03

Volatile Organic Compounds Method 5035A/8260B

Analysis Date: 10/30/03

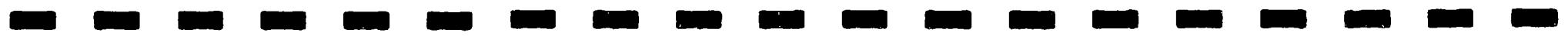
	Percent Recovery			QC Limits	
	MS	MSD	RPD	RPD	%R
1,1-Dichloroethene	102	95	7	22	36-155
Benzene	111	94	17	21	53-119
Trichloroethene	114	77	39*	24	59-126
Toluene	94	81	15	21	51-120
Chlorobenzene	103	78	28*	21	45-116

Surrogate Compound	Recovery		Units	QC Limits
Dibromofluoromethane	86	86	%	62-156
Toluene-d8	93	96	%	90-106
4-Bromofluorobenzene	86	89	%	53-120

* RPD is outside control limits

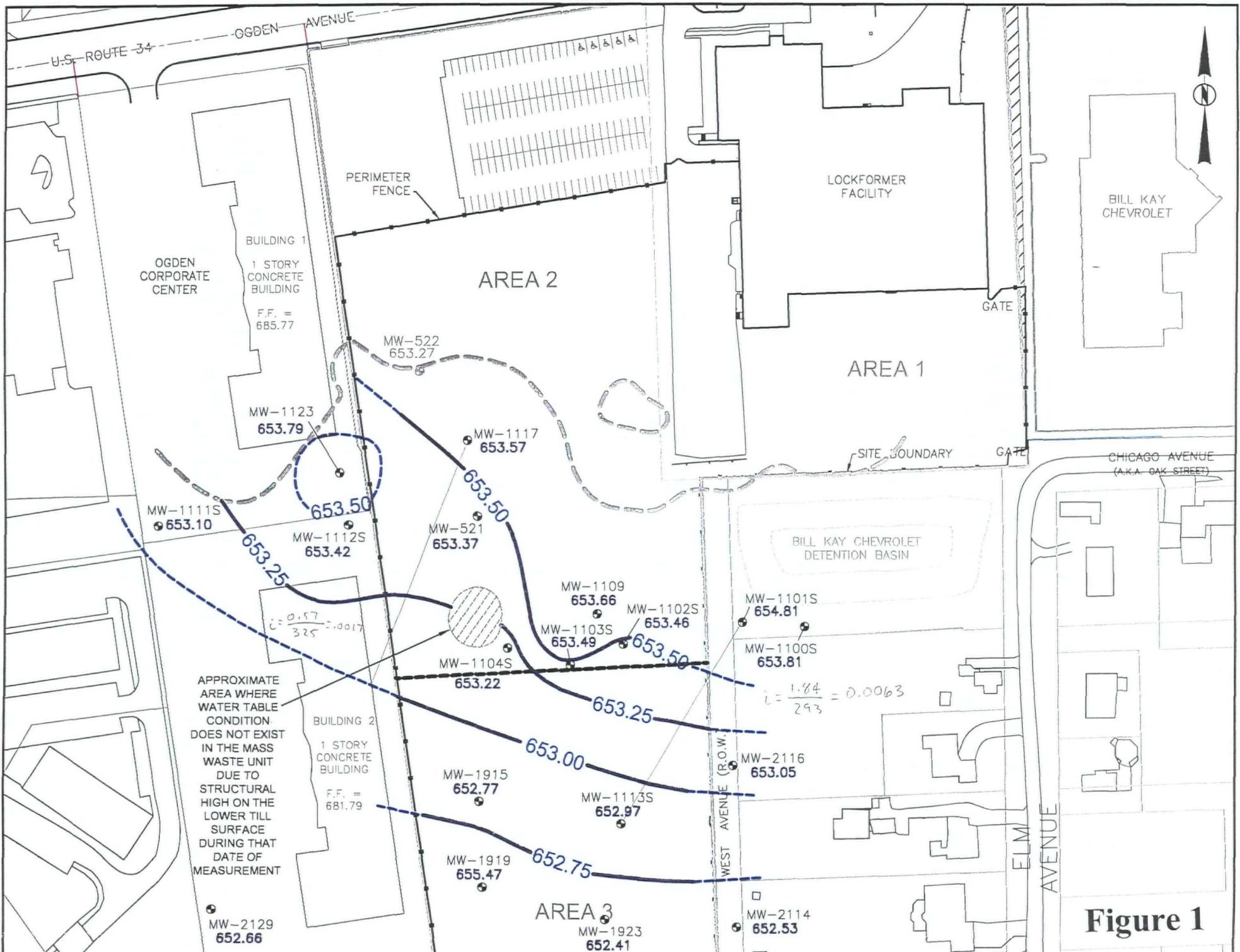
The LCS was analyzed in duplicate. The LCS/LCSD met all control limits.

ATTACHMENT C





ATTACHMENT C



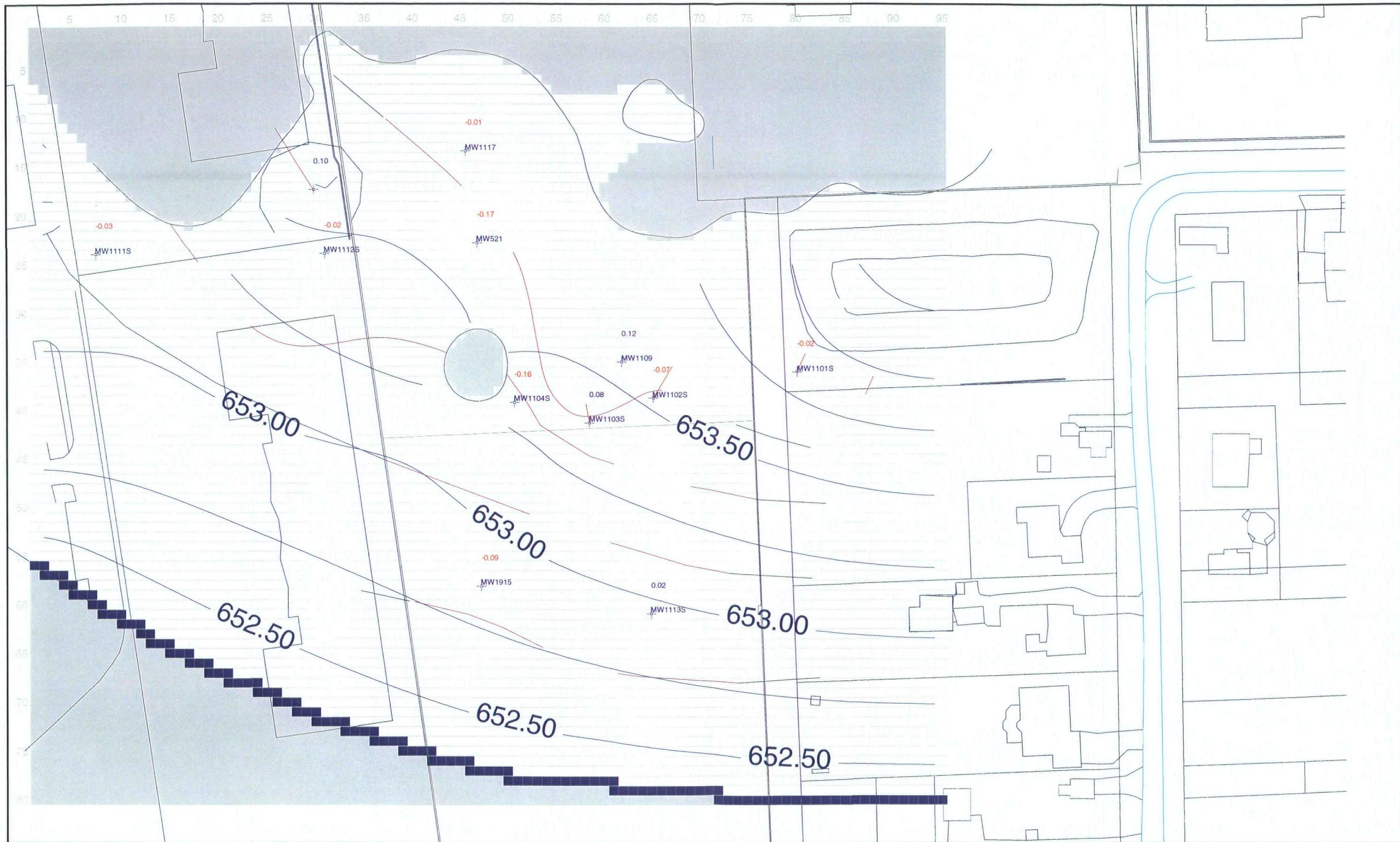


Figure 2. Calibration to July 7, 2003 Potentiometric Surface Map with calibration targets and residuals indicated.

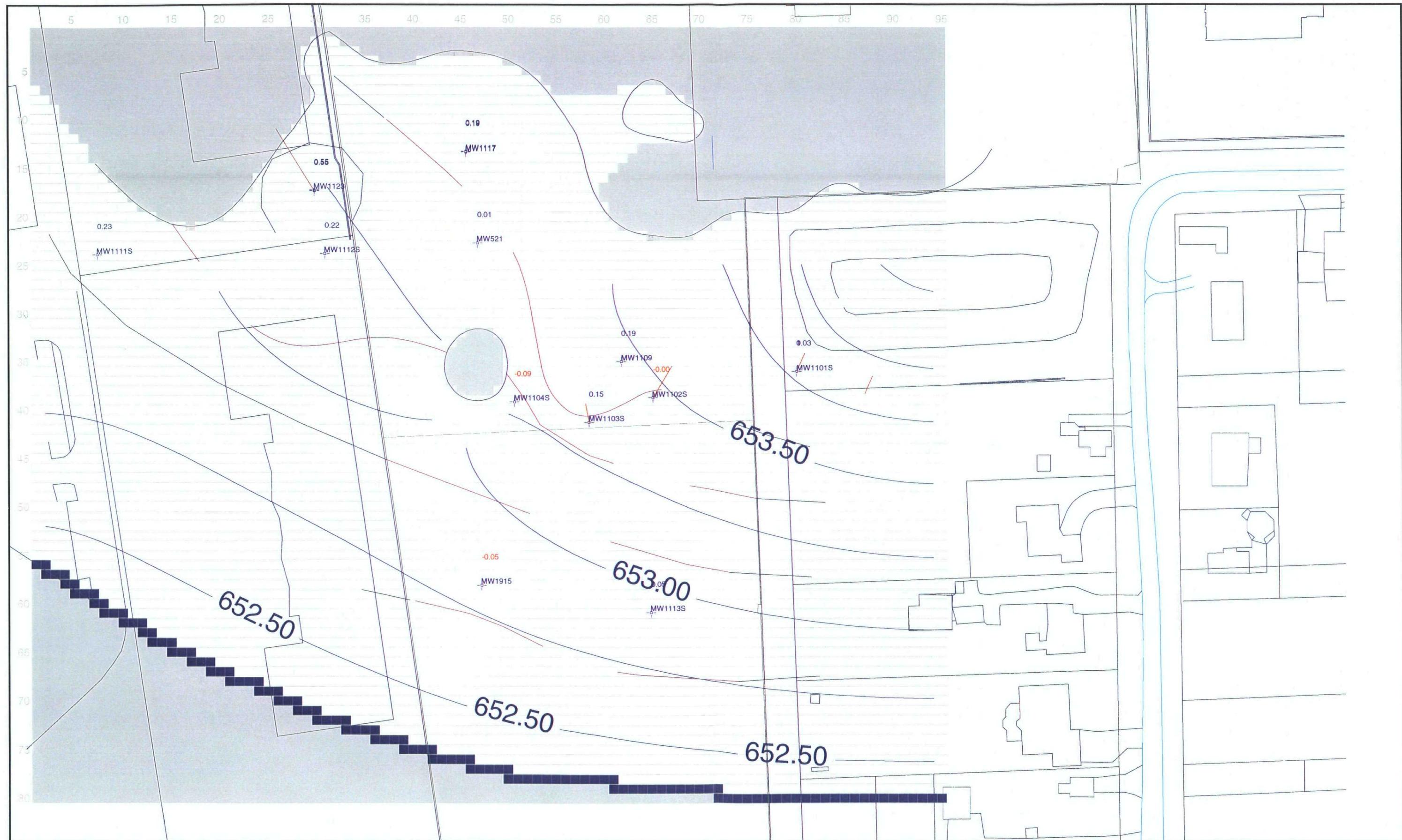


Figure 3. Calibrated Model without recharge including calibration targets and residuals.



ATTACHMENT D

BORING NO: CSB1817B		PROJECT NO: 15-65263.70-002			PROJECT NAME: Lockformer Lisle, IL									
BORING LOCATION: Adjacent to CSB1817					COORDINATES: N: 1870266.067 E: 1057686.538									
DRILLING CO: Transhield Underground Services				DRILLER: J. Luna										
DRILLING EQUIP: Tracked Geoprobe				BOREHOLE DIA: 2"										
START DATE: 3/18/2004		FINISH DATE: 3/18/2004			LOGGED BY: D. Lamsma									
					CHECKED BY:									
DEPTH ft m	DESCRIPTION	GRAPHIC	SAMPLES			PID		HEADSPACE	REMARKS					
			NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")			SCAN				
0	BLIND DRILL Silty clay (based on CSB1817)								Elevation: 709.74 feet					
2														
4														
6														
8														
10														
12														
14														
16														
18														
20														

BORING NO: CSB1817B

PROJECT NO: 15-65263.70-002

PROJECT NAME: Lockformer Lisle, IL

DEPTH	DESCRIPTION	GRAPHIC	SAMPLES			PID	HEADSPACE	REMARKS
			NUMBER	RECOVERY	METHOD			
22								
24								
26	SILTY CLAY (CL) Gray, moist, trace medium to coarse sand							
28								
30								
32	SAND AND GRAVEL (GW) Moderate brown, moist, fine to coarse sand, fine to coarse gravel							
34								
36	BLIND DRILL Sand and gravel (based on CSB1817)							
38								
40								

BORING NO: CSB1817B

PROJECT NO: 15-65263.70-002

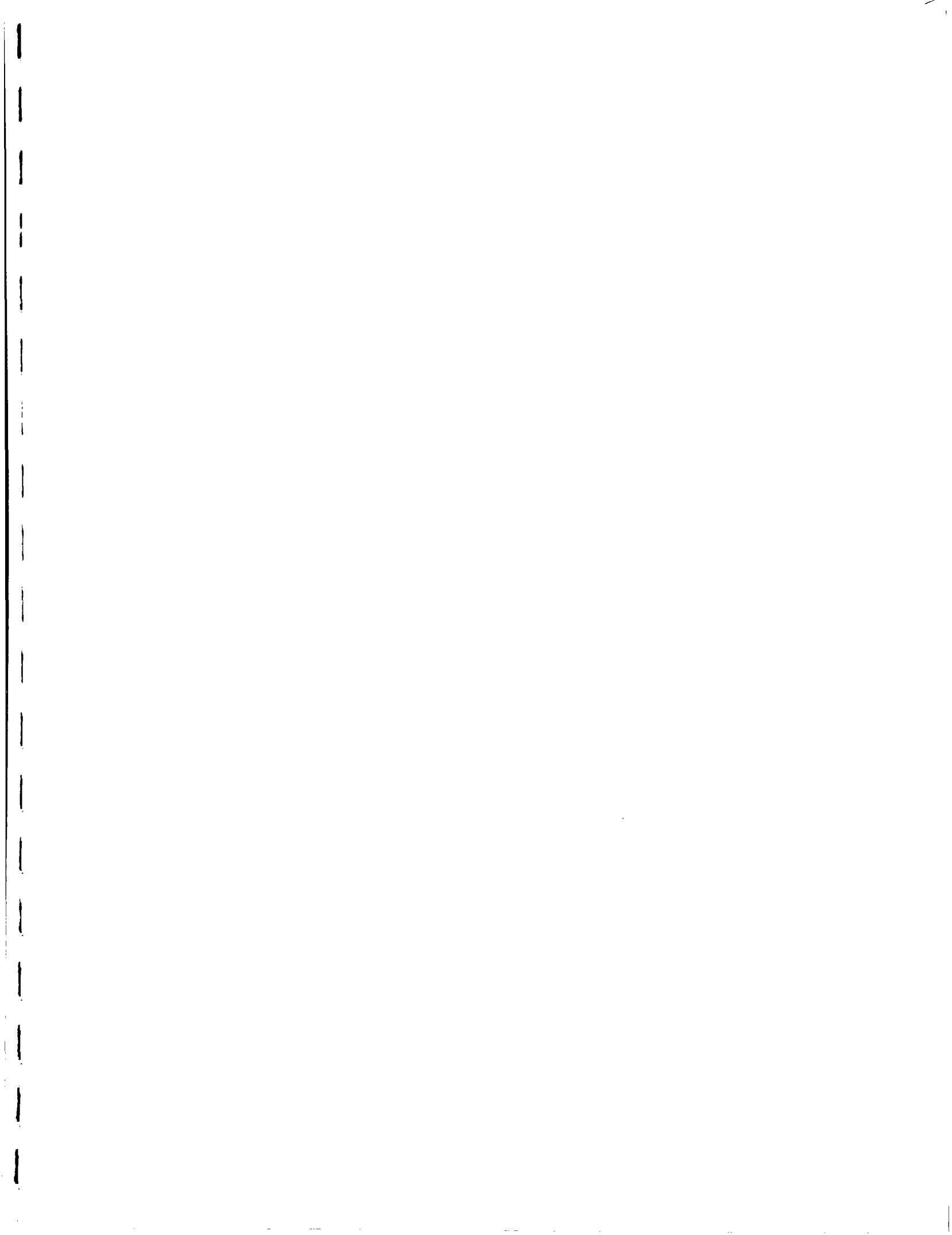
PROJECT NAME: Lockformer Lisle, IL

DEPTH	DESCRIPTION	GRAPHIC	SAMPLES				PID	HEADSPACE	REMARKS
			NUMBER	RECOVERY	METHOD	MOISTURE			
42	SAND AND GRAVEL (GW) Moderate brown, moist, fine to coarse sand, fine gravel, some silt			3/5	HPU	M		--	
44								--	
46 14								--	
48				3.5/5	HPU	M		--	
50	Trace clay from 50.0 to 55.2 feet								
52 16								--	
54								--	
56	SILTY CLAY (CL) Gray, very moist, soft, cohesive								VOCs
58									
60 18									

BORING NO: CSB1817B		PROJECT NO: 15-65263.70-002		PROJECT NAME: Lockformer Lisle, IL						
DEPTH	DESCRIPTION	GRAPHIC	NUMBER	SAMPLES			PID		HEADSPACE	REMARKS
				RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	SCAN		
62	CLAYEY SILT (ML) Light grayish brown, wet, with fine sand, trace medium to coarse sand, cohesive			5/5	HPU	W		-	-	
64										
66	End of Boring at 65.0 Feet									
68										
70										
72										
74										
76										
78										
80										



ATTACHMENT E





CHECK BY
DRAWN BY BCP
DATE 3-5-04
SCALE AS SHOWN
CAD NO. 6526360012Q
PRJ NO. 65263.60

LOWER TILL SOURCE AREA MAP
IN AREAS 1 AND 2

THE LOCKFORMER COMPANY
711 W. OGDEN AVENUE
LISLE, ILLINOIS



Clayton
GROUP SERVICES

FIGURE

5 2=1